Rose. Ingram

Bulletin

WEST CHESTER STATE COLLEGE

WEST CHESTER, PENNSYLVANIA

Catalogue Number
1963-1964 Sessions

WEST CHESTER STATE COLLEGE BULLETIN

WEST CHESTER, PENNSYLVANIA

1963-1964 Sessions

CATALOGUE NUMBER

Vol. 91 No. 2

March, 1963

WEST CHESTER, PENNSYLVANIA

WEST CHESTER STATE COLLEGE

IS ACCREDITED BY

THE MIDDLE STATES ASSOCIATION OF COLLEGES

AND SECONDARY SCHOOLS,

THE NATIONAL COUNCIL FOR ACCREDITATION

OF TEACHER EDUCATION,

THE AMERICAN ASSOCIATION FOR HEALTH,

PHYSICAL EDUCATION, AND RECREATION,

AND THE

NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC

Issued six times a year, February, March, April, May, August and October by the Trustees of West Chester State College at West Chester, Pennsylvania.

Entered as second class matter March 3, 1931, at the Post Office at West Chester, Pennsylvania, under the Act of Congress of August 24, 1912.

Second Class Postage Paid at West Chester, Pa.

TABLE OF CONTENTS

Administrative Officials 7
Administrative Officers 8
Emeriti 9
Faculty 9
Staffs 22
Correspondence and Communication 27
College Calendar 28
General Information 31
College Community Organization 37
Marking System 44
Student Life 51
Extra-Curricular Activities 53
Scholarships 55
Loan Funds 60
Student Employment 61
Admission to the College 65
Expenses and Fees 72
Curricula Offered 83
- Elementary Education 83
- Secondary Education 87
- Health and Physical Education 102
- Music Education 108
- Dental Hygiene 110
- Public School Nursing 113

Liberal Arts 116
Course Descriptions 135
Summer Session, 1964 221
Extension Courses 222
Graduate Studies 223
Index 225
Request for Application 229

Administration and Faculty

COMMONWEALTH OF PENNSYLVANIA
STATE COUNCIL OF EDUCATION

Dr. Charles H. Boehm, President
and Chief Executive Officer

Paul R. Anderson ..... Philadelphia
James H. Duckrey ..... Cheyney
O. H. English ..... Abington
Stephen B. Sweeney ..... Philadelphia
Cathleen M. Champlin ..... Philadelphia
Andrew J. Nowak ..... Erie
Mario C. Celli ..... Greensburg
Ira C. Gross ..... Beaver Springs
Dwane E. Wilder ..... Warren

DEPARTMENT OF PUBLIC INSTRUCTION

Charles H. Boehm ..... Superintendent of Public Instruction
George W. Hoffman ..... Special Deputy Superintendent
Neal V. Musmanno ..... Deputy Superintendent
Richard Gibboney ..... Deputy Superintendent

BOARD OF TRUSTEES, WEST CHESTER STATE COLLEGE

Harry C. Symons, President ..... Pottstown
Mrs. Nolan N. Atkinson, Vice-President ..... Bryn Mawr
Mrs. J. Herbert Chambers, Secretary ..... West Chester
Robert R. Batt ..... Ithan
Mrs. James John ..... West Chester
Joseph A. Joyce ..... West Chester
Mrs. Elizabeth Read Ross ..... Doylestown
Robert M. Urbani ..... Wynnewood

ADMINISTRATIVE OFFICERS

President ..... Earl F. Sykes

Academic Affairs

Dean of Academic Affairs ..... Walter J. Gale
Director of Undergraduate Program ..... Emil H. Messikomer
Director of the Liberal Arts Program ..... Kenneth C. Slagle
Director of the Graduate Program ..... Willard J. Trezise
Staff Assistant to the
Dean of Academic Affairs ..... Arnold Fletcher
Director of Admissions ..... B. Paul Ross
Assistant to the Director of Admissions ..... Milton C. Woodlen
Registrar ..... Helen E. Shippee
Head Librarian ..... Joseph K. Hall
Principal of the Demonstration School ..... Gerald B. Cartright
Director of Student Teaching and Placement ..... Mark M. Evans
Assistant Director of Student Teaching
and Placement ..... Charles M. Micken

Student Affairs

Dean of Student Affairs ..... Jack A. Owens
Assistant to the Dean of Student Affairs ..... William R. Benner
Dean of Women ..... M. Jane Caton
Assistant Dean of Women ..... Bernice H. Bernatz
Assistant Dean of Women ..... Florence B. Inghram
Dean of Men ..... W. Glenn Killinger
Assistant Dean of Men ..... Robert M. Mitten
Director of the Student Activities Association
B. Reed Henderson
Director of Athletics ..... Robert W. Reese

Administrative Affairs

Dean of Administrative Affairs ..... Kenneth R. Widdall
Business Manager ..... Everett E. Shaefer
Assistant Business Manager ..... Robert Crauder
Superintendent of Buildings and Grounds ..... Herbert Clavier
Assistant to the Superintendent
of Buildings and Grounds ..... William A. Peoples

Public Relations and College Publications

Director of Public Relations
and College Publications ..... Alexander Antonowich
Specialist in College Publications ..... John W. Clokey

EMERITI

GRACE D. McCARTHY *Department of English, Emeritus*
University of Michigan, B.A.; University of Chicago, M.A.

ANNE M. GOSHEN *Department of Education, Emeritus*
West Chester State College; University of Michigan, B.L.; University of Pennsylvania, A.M.

GERTRUDE K. SCHMIDT *Department of Music, Emeritus*
Institute of Musical Art, New York; Trenton State Normal School; New York University, B.S. Mus., M.A.

CHARLES W. HEATHCOTE *Department of Social Science, Emeritus*
Gettysburg College, B.A.; University of Pennsylvania, A.M.; George Washington University, Ph.D.

MARION FARNHAM *Department of Art, Emeritus*
Massachusetts School of Art; University of Puerto Rico, B.A.; Boston University, M.A.

GEORGE R. CRESSMAN *Department of Education, Emeritus*
Pennsylvania State University, B.S.; University of Pennsylvania, A.M., Ph.D.

THOMAS J. S. HEIM *Department of Social Science, Emeritus*
Bucknell University, B.S.; M.A.; University of Pittsburgh, Ed.D.

FACULTY

1963-1964

EARL F. SYKES (1938) *President*
B.A., Montana University; M.A., Montana University; Ed.D., Columbia University

ALEXANDER ANTONOWICH (1945) *Director of Public Relations*
Professor of Music
Institute of Musical Art; B.S., Juilliard School of Music; M.A., Columbia University; Ed.D., Columbia University

DOROTHY D. BAILEY (1958) *Professor of English*
B.A., Our Lady of the Lake College; M.A., University of Texas; Ph.D., University of Wisconsin

MICHAEL F. BANNON (1955) *Professor of Education*
B.S., State College, Troy, Alabama; M.A., Columbia University; Ed.D., George Peabody College for Teachers.

ROBERT K. BARON (1960) *Instructor of English*
B.A., Temple University; M.A., Temple University.

EDWARD A. BARROW (1956) *Assistant Professor of Music*
B.M., M.M., Eastman School of Music, University of Rochester.

ELIZABETH B. BEATTY (1960) *Assistant Professor of Music*
B.M., University of Michigan; M.Ed., Temple University.

HAROLD W. BENDA (1956) *Chairman of Education Department*
Professor of Education
B.A., Iowa State Teachers College; M.A., University of Iowa; Ed.D., New York University.

WILLIAM R. BENNER (1938) *Assistant to the Dean of Student Affairs*
Assistant Professor
B.S., West Chester State College; M.A., Temple University.

GERTRUDE W. BERNARD (1957) *Supervisor of Student Teaching*
Associate Professor of Music
B.F.A., Carnegie Institute of Technology; M.Ed., Pennsylvania State University; Juilliard School of Music.

BERNICE H. BERNATZ (1954) *Assistant Dean of Women*
Associate Professor
B.A., Iowa State Teachers College; M.A., University of Michigan.

THOMAS E. BERRY (1946) *Professor of English*
A.B., A.M., University of Pennsylvania; Ph.D., University of Pittsburgh.

FLOYD R. BIELSKI (1961) *Assistant Professor of Geography*
B.S., Indiana State College; M.A., University of Ilinois.

JAMES A. BINNEY (1947) *Professor of English*
Clarion State College; B.A., Pennsylvania State University; M.A., Ph.D., University of Pittsburgh.

LLOYD W. BLACK (1960) *Assistant Professor of Health*
and Physical Education
Head Coach of Wrestling
B.S., M.S., Temple University.

MARY M. BLISS (1952) *Assistant Professor of Science*
A.B., Swarthmore College; M.S., Temple University.

RICHARD A. BOERLIN (1961) *Assistant Professor of Music*
B.S., M.S., University of Illinois.

JAMES B. BONDER (1946) *Professor of Education*
Head Coach of Football
B.A., LaSalle University; M.A., Villanova University; Ed.D., Temple University.

KENNETH BRADDOCK-ROGERS (1938) *Professor of Science*
B.S., Haverford College; M.S., Ph.D., University of Pennsylvania.

RICHARD G. BRANTON (1962) *Instructor of Mathematics*
B.S., West Chester State College; M.S., University of Delaware.

WILLIAM J. BRUEHL (1960) *Assistant Professor of English*
B.S., West Chester State College; M.A., University of Pennsylvania; Hofstra College.

WALTER E. BUECHELE (1962) *Assistant Profesor of Education*
B.S., West Chester State College; M.Ed., Temple University.

ROBERT L. CARL (1946) *Assistant Professor of Music*
B.S., Johns Hopkins University; B.M., M.M., Peabody Conservatory of Music.

ROBERT E. CARLSON (1961) *Professor of Social Science*
B.A., M.A., Ph.D., University of Pittsburgh.

CECILY G. CARMICHAEL (1962) *Assistant Librarian*
Instructor
B.S., Simmons College.

PAUL E. CARSON (1946) *Associate Professor of Music*
B.S., Central Missouri University; M.F.A., Carnegie Institute of Technology.

GERALD B. CARTRIGHT (1961) *Principal of Demonstration School*
Assistant Professor of Education
B.S., Lock Haven State College; M.Ed., Pennsylvania State University.

MARY J. CATON (1954) *Dean of Women*
Assistant Professor
B.S., Indiana State Teachers College; M.S., Ohio University.

CONRAD E. CHALICK (1962) *Demonstration School*
Instructor of Education
B.A., Pennsylvania Military College; Temple University.

FRANK T. CHEESMAN (1947) *Professor of Music*
Conservatory of Music, Toronto, Canada; B.M.Ed., B.M., M.M., Northwestern University; Ed.D., Columbia University.

KATHRYN F. CHILDS (1962) *Lecturer in Mathematics*
B.S., West Chester State College; M.S., University of Pennsylvania; Rutgers University.

CARMELA L. CINQUINA (1961) *Lecturer in Science*
B.S., West Chester State College.

JOHN W. CLOKEY (1946) *Specialist in College Publications*
Associate Professor of English
B.S., West Chester State College; M.Ed., Temple University.

BARBARA J. COATES (1954) *Associate Professor of Health*
and Physical Education
B.S., Lock Haven State College; M.A., Allegheny College.

NORMAN A. COCHRAN (1956) *Associate Professor of Health*
and Physical Education
B.S., West Chester State College; M.A., University of Maryland.

FAYE A. COLLICOTT (1929) *Assistant Librarian*
Associate Professor
A.B., Simpson College; B.S., Columbia University; A.M., Columbia University.

GERALDINE C. CONBEER (1946) *Assistant Librarian*
Associate Professor
B.S., Millersville State College; M.Ed., University of Pittsburgh; B.S., Drexel Institute of Technology.

EDWIN B. COTTRELL (1955) *Vice-Chairman of Health and Physical Education Department, Supervisor of Student Teaching, Professor of Health and Physical Education*
Head Coach of Golf
B.S., Slippery Rock State College; M.Ed., University of Pittsburgh; Ed.D., Pennsylvania State University.

ALVIN B. DAVIS (1948) *Assistant Professor of Health and Physical Education*
Head Coach of Gymnastics
B.S., Panzer College; M.A., Montclair State College.

GRETA H. DeLONG (1961) *Professor of Education*
A.B., B.S., Michigan State Normal College; M.A., University of Michigan; Ph.D., Ohio State University.

JOHN E. C. DORCHESTER (1961) *Professor of Science*
B.A., M.A., University of British Columbia; Ph.D., University of Toronto.

CHARLES P. EMERY (1957) *Supervisor of Student Teaching*
Assistant Professor of Education
B.S., West Chester State College; M.S., University of Pennsylvania.

MARK M. EVANS (1947) *Director of Student Teaching and Placement*
Professor of Education
B.Ph., Dickinson College; M.Ed., Ph.D., University of Pittsburgh.

EDWARD G. EVERETT (1954) *Professor of Social Science*
B.S., Indiana State College; M.A., Ph.D., University of Pittsburgh.

KATHERINE W. FAUCETT (1956) *Assistant Professor of English*
B.A., Washington College; M.A., University of Pennsylvania.

ALBERT E. FILANO (1956) *Chairman of Mathematics Department*
Professor of Mathematics
B.S., M.S., University of Pennsylvania; Ph.D., Pennsylvania State University.

BYRON Y. FLECK (1953) *Chairman of Social Science Department*
Professor of Social Science
Franklin and Marshall; B.A., M.A., Ph.D., University of Iowa.

ARNOLD FLETCHER (1946) *Staff Assistant to the Dean of Academic Affairs, Professor of Music*
B.S., M.Ed., Temple University; Ed.D., University of Pennsylvania; Juilliard School of Music; Columbia University.

HOWARD T. FREEMAN (1961) *Associate Professor of Education*
B.S., Millersville State College; M.A., University of Wyoming; University of Pennsylvania.

WARREN E. FRIEMAN (1961) *Lecturer in Latin and Greek*
B.S., New York University; S.T.B. General Theological Seminary; S.T.M., Philadelphia Divinity School; Th.D., Philadelphia Divinity School.

JOHN J. FURLOW (1961) *Instructor of Health and Physical Education*
B.S., West Chester State College.

WALTER J. GALE (1962) *Dean of Academic Affairs Professor*
B.S., New Jersey State College at Glassboro; M.Ed., Ed.D., Duke University.

ALBERT A. GALLEN (1961) *Lecturer in Education*
B.S., M.S., Ed.D., Temple University.

CHARLES D. GANGEMI (1961) *Assistant Professor of Music*
B.M., M.A., University of Pennsylvania.

HENRY E. GOODWIN (1960) *Assistant Professor of Health and Physical Education*
B.S., Lock Haven State College; M.S., Pennsylvania State University.

ROBERT B. GORDON (1938) *Chairman of Science Department Professor of Science*
B.S., M.S., Ph.D., Ohio State University.

MIRIAM S. GOTTLIEB (1946) *Associate Professor of Music*
A.B., University of Denver; M. A., Columbia University; Juilliard School of Music.

JOHN W. GRAFTON, JR., (1961) *Demonstration School Assistant Professor of Education*
B.S., West Chester State College; M.A., Scarritt College; Temple University.

WILLIAM R. GRAY (1962) *Assistant Professor of English*
A.B., Princeton University; M.A., University of Pennsylvania

THELMA J. GREENWOOD (1922) *Assistant Professor of Science*
B.S., M.A., New York University.

CATHERINE E. GREGG (1954) *Professor of Education*
B.A., Oberlin College; M.A., Western Reserve University; Ph.D., Columbia University.

EDWARD D. GROSS (1961) *Assistant Professor of English*
A.B., M.A., University of Pennsylvania.

JOHN W. GUTSCHER (1946) *Associate Professor of Music*
B.S., Juilliard School of Music; M.A., Columbia University; Leipzig Conservatory; New York College of Music.

ETHEL G. HAAS (1953) *Associate Professor of Education*
B.S., Plattsburgh State Teachers College; M.Ed., University of Maryland.

HELEN E. HALES (1962) *Assistant Professor of Music*
B.M., M.M., Peabody Conservatory of Music; Johns Hopkins University

JOSEPH K. HALL (1953) *Head Librarian*
Associate Professor
A.B., University of Kentucky; B.S., Columbia University; M.A., Villanova University.

H. THEODORE HALLMAN (1950) *Chairman of Art Department*
Associate Professor of Art
Philadelphia Museum School of Fine Art; B.F.A., B.S., M.F.A., Temple University; Tyler School of Fine Arts.

CLIFFORD H. HARDING (1953) *Professor of Social Science*
A.B., Nebraska State College; M.A., State University of Iowa; Ph.D., New York University.

ROBERT W. HAWKES (1962) *Instructor in Science*
B.S., West Chester State College; M.S., Pennsylvania State University

ARTHUR S. HAWTHORNE (1949) *Associate Professor of Geography*
Head Coach of Cross Country
B.S., California State College; M.A., University of Pittsburgh.

JOHN J. HEIM (1961) *Assistant Professor of Health and Physical Education*
B.S., M.Ed., University of Delaware; Columbia University; West Chester State College

WILLIAM H. HENRY, JR. (1960) *Assistant Professor of English*
A.B., University of Pennsylvania; Ed.M., A.M., Temple University.

ROBERT W. HERRES (1961) *Associate Professor of Education*
B.S., Oswego State Teachers College; M.A., Syracuse University; Columbia University; New York University; University of Virginia.

JULIUS M. HILL (1955) *Professor of Education*
B.S., Northern Michigan College of Education; M.A., Ph.D., University of Michigan.

MARGARET W. HOLMAN (1962) *Assistant Professor of English*
B.S., West Chester State College; M.Ed., Pennsylvania State University

ANTHONY B. HOPKINS (1960) *Assistant Professor of Health and Physical Education*
Head Coach of Basketball
B.S., M.S., Springfield College.

FLORENCE B. INGHRAM (1960) *Assistant Dean of Women*
Assistant Professor
B.A., State University of Iowa; M.A., Columbia University; Claremont Graduate College.

HELEN T. IVINS (1946) *Assistant Professor of Social Science*
B.S., West Chester State College; M.S., University of Pennsylvania.

SUZANNE T. JACOBS (1962) *Assistant Professor of English*
A.B., University of Pennsylvania; M.Ed., Temple University; Pennsylvania State University; Delaware University

RAYMOND H. JENSEN (1962) *Lecturer in Social Studies*
B.S., West Chester State College; M.S., University of Pennsylvania; Temple University

CONSTANTINE JOHNS (1954) *Professor of Music*
B.S., Southeast Missouri State Teachers; M.A., Columbia University; Ed.D., Columbia University.

ROBERT E. JOHNS (1962) *Lecturer in Education*
A.B., Franklin and Marshall College; M.S., Ed.D., University of Pennsylvania

ARTHUR E. JONES (1936) *Professor of Music*
B.S., M.A., Ph.D., New York University; University of Pennsylvania.

HARRY G. JONES (1960) *Assistant Professor of Science*
B.S., Millersville State College; M.S., University of Pennsylvania.

RUBY J. JONES (1961) *Demonstration School*
Assistant Professor of Education
B.S., West Chester State College; M.A., Temple University.

LEAH E. JORDAN (1962) *Professor of English*
B.A., Swarthmore College; M.A., Ph. D., University of Pennsylvania

ALVIN S. KEINARD (1948) *Chairman of Geography Department*
Professor of Geography
B.A., Juniata College; M.Ed., Ed.D., Pennsylvania State University.

ANNE S. KELLY (1952) *Instructor of Music*
B.A., Academy of Vocal Arts, Philadelphia.

W. GLENN KILLINGER (1934) *Dean of Men*
Assistant Professor
Head Coach of Baseball
B.S., Pennsylvania State University; M.A., Columbia University; D.S., Gettysburg College.

CHARLOTTE E. KING (1955) *Associate Professor of Education*
B.S., Ed.M., Temple University.

FRITZ K. KRUEGER (1961) *Instructor of Music*
A.B., Midland College; B.S., B.M., Wittenburg University; B.M., Curtis Institute of Music.

ALOIS H. KULHANEK (1961) *Assistant Professor of Foreign Languages*
B.S., Institute of Teachers, Prague; M.S., University of Political and Social Science, Prague.

CARRIE C. KULP (1958) *Demonstration School Assistant Professor of Education*
A.B., Wheaton College; M.Ed., University of Delaware.

LUCILLE C. KYVALLOS (1962) *Assistant Professor in Health and Physical Education*
B.S., Springfield College; M.S., Indiana University; New York University

WILLIAM R. LANDRUM (1953) *Associate Professor of English*
B.A., Virginia Military Institute; M.A., Temple University.

GEORGE LANGDON (1956) *Professor of Geography*
B.S., M.S., Pennsylvania State University; Ph.D., Clark University.

RONALD P. LOMBARDI (1962) *Assistant Professor of Foreign Languages*
B.S., M.A., University of Pennsylvania

MELVIN M. LORBACK (1957) *Associate Professor of Health and Physical Education Head Coach of Soccer*
B.S., State College, Brockport, N.Y.; M.S., Pennsylvania State University.

THOMAS A. LUEBKING (1962) *Assistant Librarian Instructor*
A.B., M.S., L.S., Villanova University.

IRMA S. LUSTIG (1962) *Assistant Professor of English*
B.A., M.A., Temple University; University of Pennsylvania; University of Birmingham, England

CLARENCE A. LYNN (1962) *Lecturer in Education*
B.S., West Chester State College

JAMES M. McDONNELL (1953) *Assistant Professor of Science*
A.B., M.A., Temple University.

WILLIAM A. McKENDRY (1962) *Lecturer in Education*
B.A., Gettysburg College; M.S., Columbia University

DAVID E. McKENTY (1961) *Assistant Professor of English*
B.S., Temple University; M.A., University of Pennsylvania.

ROBERT D. McKINNEY (1952) *Associate Professor of Art*
B.S., Edinboro State College; M.Ed., Pennsylvania State University.

MARY M. MANEVAL (1956) *Professor of Social Science*
B.A., Pennsylvania State University; M.A., Ph.D., University of Michigan.

KATHERINE A. MARGERUM (1959) *Associate Professor of Health and Physical Education*
B.S., West Chester State College; M.Ed., Temple University.

LUCILE MEREDITH (1931) *Demonstration School*
Associate Professor of Education
A.B., Women's College of the University of North Carolina; M.A., Columbia University.

EMIL H. MESSIKOMER (1946) *Director of Undergraduate Program*
Associate Professor
B.S., West Chester State College; M.A., Columbia University.

KENNETH L. MICHAEL (1962) *Assistant Professor of Education*
B.A., Holy Cross College; M.Ed., Temple University

CHARLES MICKEN (1959) *Assistant Director of Student Teaching and Placement*
Supervisor of Student Teaching
Professor of Education
B.S., Millersville State College; M.S., Ed.D., University of Pennsylvania.

S. POWELL MIDDLETON (1935) *Assistant Professor of Music*
B.S., West Chester State College; M.S., Duquesne University.

FRANK E. MILLIMAN (1960) *Associate Professor of Mathematics*
B.N.S., College of Holy Cross; A.B., Hobart College; A.M., Columbia University.

LLOYD C. MITCHELL (1936) *Chairman of Music Department*
Professor of Music
Morningside College, Sioux City, Iowa; B.M., M.M., Peabody Conservatory of Music; Ed.D., Pennsylvania State University.

ROBERT M. MITTEN (1953) *Assistant Dean of Men*
Associate Professor of Health and Physical Education
A.B., MA., University of North Carolina.

CLIFTON E. MORGAN (1956) *Assistant Professor of Social Science*
B.S., East Stroudsburg State College; M.A., Rutgers University.

LARUE M. MORGAN (1961) *Assistant Librarian, Instructor*
B.S., Millersville State College.

MARY ANN MORGAN (1962) *Demonstration School Instructor of Education*
B.S., East Stroudsburg State College

ELIZABETH P. MORGANTHALL (1961) *Supervisor of Student Teaching*
Assistant Professor of Education
B.S., Elizabethtown College; M.Ed., Pennsylvania State University.

VERNON H. MORRILL (1961) *Associate Professor of Mathematics*
B.S., North Texas University; M.A., Columbia University.

PATRICIA M. NESLEY (1960) *Assistant Professor of Health and Physical Education*
B.S., West Chester State College; M.Ed., Lehigh University.

EDWARD N. NORRIS (1958) *Associate Professor of Health and Physical Education*
Head Coach of Swimming
B.S., West Chester State College; M.S. in Physical Therapy, Medical College of Virginia.

JACK A. OWENS (1956) *Dean of Student Affairs*
Professor
A.B., Concord College; M.A., West Virginia University; Ed.D., Pennsylvania State University.

CHARLES W. PATTERSON (1946) *Associate Professor of Education*
B.S., Shippensburg State College; M.Ed., Duke University; University of Pennsylvania.

FRANK E. PETERSON (1962) *Associate Professor of English*
B.S., Edinboro State College; M.A., Columbia University

FREDERICK C. PFLIEGER (1961) *Assistant Professor of Music*
B.S., West Chester State College; M.M., University of West Virginia; Eastman School of Music, University of Rochester.

LOUIS J. PHILLIPS (1962) *Associate Professor of Social Science*
B.A., M.A., Pennsylvania State University

LORRAINE L. POWLUS (1961) *Assistant Professor of Health and Physical Education*
B.S., M.S., Florida State University.

HENRY RADETSKY (1962) *Assistant Professor of Social Science*
A.B., Brooklyn College; M.A., University of Pennsylvania

LESTER N. RECKTENWALD (1962) *Associate Professor of Education*
B.S., M.A., University of Minnesota; University of Wisconsin; Columbia University

NAOMI R. REED (1953) *Associate Professor of Health and Physical Education*
B.S., East Stroudsburg State College; M.Ed., Pennsylvania State University; University of Delaware.

ROBERT W. REESE (1951) *Director of Athletics*
Assistant Professor
B.S., East Stroudsburg State College; M.S., University of Pennsylvania; Temple University.

FRANCIS J. REYNOLDS (1961) *Associate Professor of Science*
B.S., Pennsylvania State University; Ph.D., University of Pennsylvania

RUSSELL K. RICKERT (1956) *Professor of Science*
B.S., West Chester State College; M.S., University of Delaware; Ed.D., New York University.

FRANCES W. RING (1960) *Assistant Professor of Art*
B.S., Columbia University; M.Ed., Temple University.

ALFRED D. ROBERTS (1959) *Chairman of Foreign Language Department*
Professor of Foreign Languages
B.S., Ursinus College; M.A., Ph.D., University of Pennsylvania.

JOAN C. ROKUS (1961) *Instructor of Health and Physical Education*
B.S., Pennsylvania State University.

B. PAUL ROSS (1946) *Director of Admissions*
Professor of Education
B.S., M.S., Ed.D., Pennsylvania State University.

ANNE M. SCHAUB (1929) *Assistant Professor of Health and Physical Education*
B.S., M.A., Columbia University.

ROBERT SCHICK (1961) *Associate Professor of Music*
B.S., Swarthmore College; M.A., Columbia University; A.Mus.D., Eastman School of Music, University of Rochester

DORIS R. SCHOEL (1960) *Lecturer in Nursing*
R.N., Bryn Mawr Hospital; B.S., Villanova University; M.S., University of Pennsylvania.

EUGENE W. SCHOOLER (1961) *Professor of Social Science*
B.S., Fort Hays Kansas State College; M.B.A., University of Kansas; A.M., Ph.D., Harvard University.

NEVIN D. SCHULER (1962) *Associate Professor of Education*
A.B., Juniata College; M.Ed., Ed.D., Pennsylvania State University.

FRANCIS A. SEVIER (1962) *Lecturer in Mathematics*
B.S., M.S., Ed.D., University of Pennsylvania; Temple University

RALPH C. SGAMBATI (1961) *Instructor of Mathematics*
B.S., West Chester State College; M.A., Villanova University.

HAROLD SHAFFER (1952) *Associate Professor of Socel Science*
A.B., Susquehanna University; Litt.M., University of Pittsburgh; Pennsylvania State University.

JANE E. SHEPPARD (1953) *Associate Professor of Music*
B.M., Westminster College; Juilliard School of Music; M.A., Columbia University.

IRENE G. SHUR (1956) *Assistant Professor of Social Science*
B.S., Ohio State University; M.Ed., University of Delaware.

CAROLYN G. SIMMENDINGER (1958) *Associate Professor of Art*
B.S., Kutztown State College; M.F.A., Temple University; Pennsylvania State University.

WILLIAM C. SKILLEN (1947) *Associate Professor of Science*
B.S., Temple University; M.S., University of Pennsylvania; Temple University.

KENNETH C. SLAGLE (1938) *Director of Liberal Arts Program*
Chairman of English Department
Professor of English
A.B., Mount Union College; M.A., Ph.D., University of Pennsylvania.

FLORENCE B. SMITH (1961) *Demonstration School*
Instructor of Education
B.Ed., Pennsylvania State University.

JANE G. SMITH (1955) *Assistant Librarian*
Associate Professor
B.S., Millersville State College; M.Ed., Pennsylvania State University; M.L.S., Columbia University.

CHARLES A. SPRENKLE (1955) *Assistant Professor of Music*
B.M., M.M., Peabody Conservatory of Music; B.S., Johns Hopkins University; University of Pennsylvania.

RUTH S. STANLEY (1959) *Lecturer in Mathematics*
B.S., M.A., University of Oklahoma.

RICHARD L. STRAYER (1956) *Associate Professor of Education*
B.S., West Chester State College; M.Ed., University of Delaware.

RICHARD G. STUDENMUND (1956) *Supervisor of Student Teaching*
Associate Professor of Education
B.S., Shippensburg State College; M.Ed., Temple University.

RUSSELL L. STURZEBECKER (1946) *Chairman of Health and Physical Education Department*
Supervisor of Student Teaching
Professor of Health and Physical Education
B.S., West Chester State College; M.Ed., Ed.D., Temple University.

ROY D. SWEET (1953) *Associate Professor of Music*
B.S., Fredonia State College; M.M., Eastman School of Music, University of Rochester.

WILLIAM A. TALLEY (1959) *Supervisor of Student Teaching*
Assistant Professor of Education
B.S., West Chester State College; M.Ed., Harvard University.

ELINOR Z. TAYLOR (1955) *Assistant Professor of Health and Physical Education*
B.S., West Chester State College; M.Ed., Temple University.

POWELL S. THOMAS (1946) *Professor of English*
B.A., Gettysburg College; A.M., Ph.D., University of Pennsylvania.

WILLARD J. TREZISE (1938) *Director of Graduate Program*
Professor of Science
B.S., Lebanon Valley College; M.S., Ph.D., Johns Hopkins University.

MILAN TRNKA (1962) *Assistant Professor of Health and Physical Education*
A.B., Syracuse University; M.S., University of Illinois

EDWARD T. TWARDOWSKI (1951) *Professor of Health and Physical Education*
B.S., West Chester State College; M.S., University of Pennsylvania; Ed.D., Temple University.

WILLIAM F. VOLBRECHT (1938) *Professor of Social Science*
A.B., Northwestern University; M.A., Columbia University; Ph.D., University of Pennsylvania; University of Berlin.

JOHN W. WARD (1961) *Instructor of English*
A.B., M.A., Miami University.

RICHARD P. WEAGLEY (1954) *Professor of Education*
B.S., Lebanon Valley College; M.Ed., D.Ed., Pennsylvania State University.

W. BENJAMIN WHITTEN (1959) *Assistant Professor of Music*
B.M., M.M., Peabody Conservatory of Music.

HARRY WILKINSON (1948) *Professor of Music*
B.S., Temple University; M.Ed., Temple University; Ph.D., Eastman School of Music, University of Rochester.

LLOYD C. WILKINSON (1960) *Assistant Professor of Health and Physical Education*
B.S., West Chester State College; M.A., University of Miami; University of Villanova.

LOIS M. WILLIAMS (1955) *Associate Professor of Music*
B.M., Western Michigan College of Education; Hochschule fur Musik, Cologne, Germany; M.A., Columbia University; University of Indiana.

THOMAS B. WILLIAMS (1961) *Associate Professor of Education*
B.S., Salisbury State Teachers College; M.Ed., Ed.D., Temple University.

DORA F. WOLFANGLE (1929) *Demonstration School*
Associate Professor of Education
West Chester State College; B.S., M.A., Columbia University; Temple University.

MILTON C. WOODLEN (1952) *Assistant to the Director of Admissions*
Professor
B.S., Temple University; Ed.M., Ed.D., Temple University.

JAMES J. WRIGHT (1945) *Professor of Music*
B.S., West Chester State College; M.Ed., Temple University; Ph.D., Eastman School of Music, University of Rochester.

DOROTHY YANISCH (1947) *Associate Professor of Health and Physical Education*
B.S., West Chester State College; M.Ed., Temple University.

RICHARD B. YODER (1962) *Instructor in Health and Physical Education*
B.S., West Chester State College; M.A., Villanova University

EDWIN L. YOUMANS (1960) *Professor of Health and Physical Education*
Head Coach of Track and Field
B.A., Iowa State Teachers College; M.A., Ph.D., University of Iowa.

SUPERVISORY AND ADMINISTRATIVE PERSONNEL

EVERETT E. SHAEFER .....Business Manager
ROBERT T. CRAUDER .....Assistant Business Manager
ELIZABETH C. GRIFFITH .....Principal Clerk
SARA Y. BAXTER .....Accountant
HANNAHBELLE T. MORRISON .....Senior Clerk
EMILY C. HAINES .....Procurement Clerk

MEDICAL STAFF

C. P. KISTLER, M.D. .....Medical Director

OPERATING STAFF

DONALD SHEELER ..... Chief Security Officer
JOHN WOOLDRIDGE ..... Laundry Supervisor
AGNES SPEAKMAN ..... Housekeeper
BEATRICE F. CONNELL ..... Postmistress
ELMA PIERCE ..... Chief Switchboard Operator
CHARLES FINEGAN ..... Labor Foreman
JOHN RAY ..... Building Maintenance Foreman
JOHN WINDER ..... Utility Plant Supervisor
THOMAS MUSKEY ..... Supervisor, I.B.M. Staff
MARY R. WEIR ..... Secretarial Assistant to the Board of Trustees and to the President
JULIA D. OAT ..... Secretary to the President
JOAN JAMES ..... Secretary to the Dean of Academic Affairs
BEVERLY N. LENNON ..... Secretary to the Dean of Student Affairs
JANE F. MULLISON ..... Secretary to the Dean of Administrative Affairs

General Information

PHILIPS MEMORIAL TOWERS

CORRESPONDENCE AND COMMUNICATIONS

Listed below are the officers to which inquiries should be directed. In each case the post office address is West Chester State College, West Chester, Pa.; telephone, 692-3210.

Director of Undergraduate Program—

Certification requirements for teaching
Courses and curricula
Graduation requirements
Selective Service information

Director of Admissions—

Applications and Admission to the Undergraduate Program
Catalogues and other publications

Business Manager—

Deferred Payments
Fees and Expenses
Refunds on Accounts
Checks for Student Help, Loans, and Scholarships

Dean of Student Affairs—

Scholarships and loans
Work opportunities for students

Director of Student Teaching and Placement—

Placement Service

Director of Graduate Studies—

Application and Admission to the Graduate Program
Graduate School Catalogue

Director of Liberal Arts Program—

Application and Admission to the Liberal Arts Program

Registrar—

Transcripts of college credits
Veterans' affairs

COLLEGE ACADEMIC CALENDAR

1963 - 1964

FALL SEMESTER

Last day for new students to qualify for admission to the fall semester ..... Thursday, August 15
Faculty and Department Meetings ..... Tuesday, September 3
Registration
Freshmen ..... Wednesday, September 4
Sophomores and Seniors ..... Thursday, Septemebr 5
Juniors ..... Friday, September 6
Readmission, Transfer and Special Students .... Friday, Sept. 6 (p.m.)
Part-time and Graduate Students ..... Saturday, September 7
Freshmen Classification Tests ..... Thursday, September 5 and Friday, September 6
Freshmen Orientation ..... Friday, September 6
Classes begin ..... Monday, September 9
Thanksgiving Recess
Begins — close of classes ..... Tuesday, November 26
Ends — 8:00 a.m. ..... Monday, December 2
Christmas Recess
Begins — close of classes ..... Tuesday, December 17
Ends — 8:00 a.m.
Undergraduate ..... Monday, January 6
Part-time and Graduate ..... Saturday, January 4
Final Examinations ..... Thursday, January 9-17
Commencement ..... Thursday, January 16
Fall semester ends ..... Friday, January 17

SPRING SEMESTER

Last day for new students to qualify for admission to the spring semester ..... Friday, January 10
Registration
Part-time Students ..... Saturday, January 18
Freshmen and Seniors ..... Monday, January 20
Sophomores and Juniors ..... Tuesday, January 21
Classes begin
Part-time and Graduate ..... Monday, January 20
Undergraduate ..... Wednesday, January 22
Washington's Birthday
Begins — close of classes ..... Thursday, February 20
Ends — 8:00 a.m. ..... Monday, February 24
Spring-Easter Recess
Begins — close of classes ..... Saturday, March 21
Ends — 8:00 a.m. ..... Tuesday, March 31
Final Examinations ..... Thursday, May 14 to Thursday, May 21
Alumni Day ..... Saturday, May 23
Commencement ..... Sunday, May 24

SUMMER SCHOOL — 1964

Pre-Session ..... June 8 - June 26
Regular Session ..... June 29 - August 7
Part Session ..... August 10 - August 28

THE ACADEMIC YEAR

1964 - 1965

FALL SEMESTER

Faculty and Department Meetings ..... Tuesday, September 8
Registration
Freshmen ..... Wednesday, September 9
Sophomores and Seniors .....Thursday, September 10
Juniors ..... Friday, September 11
Readmission, Transfer, and Special Students ..... Friday, September 11 (p.m.)
Part-time and Graduate Students ..... Saturday, September 12
Freshman Classification Tests ..... Thursday, September 10 and Friday, September 11
Freshman Orientation ..... Friday, September 11
Classes begin ..... Monday, September 14
Thanksgiving Recess
Begins — close of classes ..... Tuesday, November 24
Ends — 8:00 a.m. ..... Monday, November 30
Christmas Recess
Begins — close of classes ..... Saturday, December 19
Ends — 8:00 a.m. ..... Monday, January 4
Final Examinations ..... Thursday, January 14 to Friday, January 22
Commencement ..... Thursday, January 21
Fall semester ends ..... Friday, January 22

SPRING SEMESTER

Registration
Part-time Students ..... Saturday, January 23
Freshmen and Seniors ..... Monday, January 25
Sophomores and Juniors ..... Tuesday, January 26
Classes begin
Part-time and Graduate ..... Monday, January 25
Undergraduate ..... Wednesday, January 27

Washington's Birthday
Begins — close of classes ..... Saturday, February 20
Ends — 8:00 a.m. ..... Tuesday, February 23

Spring Recess
Begins — close of classes ..... Saturday, March 20
Ends — 8:00 a.m. ..... Monday, March 29

Easter Recess
Begins — close of classes ..... Thursday, April 15
Ends — 8:00 a.m. ..... Tuesday, April 20

Final Examinations ..... Thursday, May 13 to Saturday, May 22

Alumni Day ..... Saturday, May 22

Commencement ..... Sunday, May 23

SUMMER SESSION

1965

Pre-Session ..... June 7 to June 25 (no classes July 5)

Regular Session ..... June 28 to August 6 (Commencement August 5)

Post Session ..... August 9 to August 27

"TANGLEWOOD" — PRESIDENT'S RESIDENCE

HISTORY AND OBJECTIVES OF WEST CHESTER STATE COLLEGE

The College marks its beginning with the founding of the West Chester Academy in 1812. In 1871 the Academy became the West Chester Normal School devoted to the preparation of teachers. When the State Normal School became the State Teachers College in 1927 the four year program of teacher training was instituted. On January 8th, 1960, the West Chester State Teachers College became the West Chester State College by action of the Pennsylvania State Legislature. This action opened the door for the College to become a multi-purpose institution.

Historically, the College has held as its primary objective the preparation of teachers for the public schools of Pennsylvania. West Chester offers the degree of Bachelor of Science in Education with majors in four basic curricula — Elementary, Secondary, Music, and Health and Physical Education — plus degree curricula for Public School Nurses and Dental Hygienists. The College also has instituted a program of courses designed to meet certification requirements for the teaching of mentally retarded and physically handicapped children.

West Chester also operates an extensive two-track program for teachers-in-service. One phase of the program consists of evening and Saturday courses for those desiring to satisfy various professional needs, including certification requirements. The second phase consists of a graduate program leading to a Master of Education degree in the following fields: elementary education, music education, health and physical education, and secondary education specializations in English, social studies, geography, biological science, and mathematics. (For further details see the Graduate Announcement.)

The second major objective of the College program is to provide a liberal college education for the youth of the Commonwealth. To this end, the College has been officially approved by the State Council of Education for the purpose of offering a liberal arts program, effective September, 1962. This is a four-year program in the areas of Humanities, Social Sciences, and Natural Sciences (including the subject field of mathematics).

The various programs at West Chester are comprehensive, designed to satisfy the mental, physical, and spiritual needs of all students. Extra-curricular activities, lectures, entertainments, and religious club activities afford each student an opportunity to develop wholesome personality and character traits.

From time to time the faculty study the needs of the College in

relation to the work of the teacher in the public schools. Curriculum studies are directed both to content of subject matter areas and methods to be used in each field. Special committees are appointed to study various problems and to report their findings and recommendations to the faculty. In the late fifties a state-wide study of the curricula in the several State Colleges was completed and led to the adoption of revised curricula for the freshman class of 1959. Further studies and adjustments are being continued as the need arises.

COMPREHENSIVE CAMPUS PLANS

During recent years the College has been engaged in the formulation of long range plans for the expansion of the campus and development of the physical plant serving its academic, athletic, residential, recreational, cultural, and student activity programs. This endeavor, known as the 1960-1970 Comprehensive Campus Plan for West Chester State College, has been approved by the Board of Trustees of the College, the Department of Public Instruction, the State Art Commission, and the General State Authority.

Presently, the College is deep in projects which upon completion will constitute the first third of the entire program. It is anticipated that the remaining two-thirds of the program will necessitate the expenditure of an additional twenty-five million dollars.

At the conclusion of this program the College is expected to have an enrollment of 5,600 full-time students, of whom 3,800 will be housed in newly constructed dormitories and 1,800 will be commuting full-time day students.

To all who have known the campus or to those who visit, it becomes readily apparent that the College is in a period of rapid transition from the old to the new. The gradual emergence of a dynamic, aggressive, ongoing program of higher education from a relatively traditional past is marked by the demolition of familiar landmarks and the erection of aesthetically pleasing buildings functionally designed to meet both the needs of today and the challenges of the twenty-first century.

To accommodate the rapidly expanding student population and to provide suitable sites for the many teaching, learning, and living centers of varied description, the College has embarked on an extensive program of land acquisition. The campus of the future will be expanded from its current 263 acres to a beautiful campus of approximately 400 acres at the turn of the century. By the year 1970 total campus area is expected to be in excess of 350 acres.

Land owned by West Chester State College may be divided into two

major areas: North Campus and South Campus. Presently, North Campus accommodates all of the instructional, academic, recreational, and student activity programs. However, current and future demands on the 69 acres of North Campus for classrooms, dormitories, dining halls, parking areas, and student activity facilities have so encroached on existing outdoor areas as to make the replacement of such areas a major item in the Comprehensive Campus Plan.

Long range land utilization planning calls for North Campus to accommodate a World Culture Arts Center, Commuter Student Center, laundry, maintenance and storage building, ten dormitories, a library, several classroom buildings, two dining halls, a central heating plant and service center, an administration center, numerous parking areas, the President's residence, learning research laboratory, infirmary, two academic quadrangles, a College Mall located adjacent to a student-faculty-alumni center and field house, and other facilities designed for relaxation and recreation.

South Campus will be expanded greatly as its development progresses. A unique feature of South Campus will be an outdoor band shell serving to enrich the academic and cultural pursuits of the student body, the community of Greater West Chester, and the general southeastern service area of the Commonwealth.

South Campus will also provide the vast expanse necessary to serve ambitious programs in intercollegiate competition and intramural activities. Tennis courts, soccer and baseball fields, field hockey and lacrosse areas, archery and rifle ranges, an outdoor education site, a stadium for intercollegiate football and track and field events, an aquatic sports area, and a 9-hole golf course will be part of this campus. A new field house, complete with gymnasia, pools, classrooms, dance studios, offices, and other facilities, serviced by an auxiliary heating plant, completes the area which is provided with adequate parking areas interconnected by north-south and east-west traffic arteries.

CURRENT CAMPUS EXPANSION PROJECTS

The following projects, representing an investment of approximately $8.5 million, are in various stages of development:

1. An air conditioned three-story Dining Hall serving 2,400 students and 100 faculty and staff, incorporating closed circuit television, auditorium, postal facilities, student lounge, day student lunch room, administrative and student organization offices, and day student locker facilities.

2. A three-story Biological Science Center with auditorium, lecture hall, science museum, rooftop greenhouse, laboratories, seminar rooms, research areas, and faculty offices.

3. Heating Plant and Campus Utilities Expansion incorporating the installation of three boilers with a capacity of 1,300 horsepower, expansion and development of basic utility services.

4. A $300,000 Off-Campus Utilities Expansion Project serving the College via a West Chester Borough—Commonwealth contract.

To integrate the Comprehensive Campus Plan of the College with the overall long range development of the Greater West Chester area, College officials are meeting with representatives of the various Planning Boards of several nearby municipalities. Such cooperative joint ventures into the Campus of The Future involve not only those presently at the College and in the community but deal with many arms of the Commonwealth such as the Legislature, the Office of Administration, the Department of Public Instruction, the Department of Labor and Industry, the State Art Commission, the Pennsylvania Council of Education, The General State Authority and, indeed, the citizens and taxpayers from all sections of the Commonwealth.

FRANCIS HARVEY GREEN LIBRARY

The college library, built in 1902, was completely remodeled in 1938-1941, and in 1947 it was dedicated to Dr. Francis Harvey Green, former chairman of the English Department. The library is organized in the usual fashion, having a Reference Room, Periodical Room, Recreational Reading Room, Conference Rooms, and a reserve section. There is also a Curriculum Laboratory and a Juvenile Room which is used by the children from the Demonstration School. Microcards and microfilms are available.

In addition to the regular collection, the Library subscribes to almost 500 magazines and newspapers. It has also a valuable collection of rare books on natural history, the four folios of Shakespeare's plays (1623-1685), and the Sanderson **Biographies of the Signers of the Declaration of Independence,** with autographs of the signers.

The library is affiliated with the Philadelphia Union Catalogue.

All freshman students are given lessons in the use of the library. Other classes and graduate groups come for advanced instruction.

Sheet music, scores, and records are located in the Music Library of Swope Hall.

College Community

COLLEGE COMMUNITY ORGANIZATION AND ADMINISTRATION

Based upon the belief that all who share in the advantages of the college community should join in the responsibility of government, a college community has been conceived whereby faculty and students cooperate as fully as possible for the mutual advancement of the college program.

Achievement goals for each college year have been set up as tentative guides for a program of college life, subject to constant modification to meet new trends and needs. These goals cover the areas of administration, instruction, student life and personnel, community and service area relationship, and teacher education.

These goals are achieved through councils and standing committees.

The Academic Affairs Council is an advisory group composed of Departmental Chairmen and administrators. This Council aids the President in formulating and executing the general administrative policies of the institution.

The standing committees represent both faculty interests and faculty-student interests. They include committees on Admission, Personnel and Guidance, Curriculum Study and Revision, Library, Scholarship, Student Life and Activities, Athletics, and Student Teaching and Placement.

Student Government

The purpose of the Student Government Association shall be to give the students of West Chester State College the learning experience of a representative and cooperative government organization to work toward the betterment of the general welfare of the student body of the college; to provide an opportunity for students to participate in and assume the responsibility of formulating policy, procedures, programs, etc. which pertain to student affairs.

The Student Government Association shall function as the liaison between the student body, the faculty, and the administration. This organization shall act in all areas to contribute to the betterment of the college community.

The Student Government Association shall be composed of the Presidents of the Women's Advisory Board; the classes, Freshmen, Sophomore, Junior and Senior; the Presidents of the Women's and Men's Dormitory Councils and the Presidents of the Women's and Men's Day Students Council.

The advisers to this Association shall be the Deans of Women and Men and/or their assistants.

All Star Entertainment Program

The annual All-Star Course brings to the campus some of the world's most famous artists in fields of music, drama and dance. Among these have been the Pittsburgh, Detroit, National, Cleveland and Minneapolis Symphony Orchestras, the Robert Shaw Chorale, the Jose Limon Dance Company, the Boston Opera Company, George London, Isaac Stern, Brian Sullivan, the Canadian Players, Carmen Amaya, Jerome Hines, Blanche Thebom, Nathan Milstein, the Singing Boys of Norway, Roberta Peters, Cesare Siepi and the Wagner Opera Company.

The William Pyle Philips Lecture Foundation brings to the campus lecturers who are leaders in the fields of literature, science and world affairs. Among these have been Madame V. L. Pandit, Arnold Toynbee, Harrison Salisbury, Loren Eiseley, C. H. Lowe, Daniel Schorr, Ashley Montague, Walter Sullivan, Robert Frost and Bennett Cerf.

The college Assemblies, which are held approximately twice each month, provide the students, faculty and citizens of the community with an additional series of cultural and professional programs.

Musical Organizations

In conjunction with the regularly scheduled student and faculty recitals, the College Administration has set up the following well-developed musical organizations which contribute to the wealth of fine music on campus:

1. TWO COLLEGE BANDS: THE CONCERT BAND AND THE MARCHING BAND.

   Membership in these organizations is determined by the student's qualifications regardless of curriculum.

2. THE CRITERIONS.

   The dance band of the College consists of ten or more men, carefully selected, who furnish the music at social functions of the College.

3. THE SYMPHONY ORCHESTRA.

   Membership in this organization is determined by the student's qualifications regardless of curriculum.

4. THE MIXED CHOIR.

   A mixed chorus selected from students in the Music Education Curriculum, meeting twice a week, devoting their efforts towards acquiring a fine technique of choral singing through the preparation of an extensive repertoire for performance.

5. THE WOMEN'S CHORUS.

   All women not in the College Choir, enrolled in the Music Edu-

cation Curriculum are required to take this course, devoting their efforts primarily towards acquiring the techniques of choral singing.

6. COLLEGE WOMEN'S GLEE CLUB.
   Members are carefully chosen from women of the Elementary, Secondary, and Health and Physical Education groups for this club.

7. MEN'S CHORUS.
   Members are selected from the men of the Elementary, Secondary, and Health and Physical Education curricula and joined with the men not in the College Choir for this choral group.

8. THE SINFONIETTA.
   The Sinfonietta is a group of about twenty-five outstanding players chosen from the Symphony Orchestra. It was organized to bring before the College and the community compositions written especially for small orchestras.

9. THE MUSIC CLUB AND CHAMBER MUSIC GROUPS.
   Membership in these groups is determined by the student's qualifications.

INTERCOLLEGIATE ATHLETICS (MEN)

It has become recognized by educators and public alike that athletics are a part of general education because athletic activities provide situations that are akin to life experiences, and as such, are conducted with the purpose of developing the educational values which grow out of them.

With this in mind, the College Administration has set up an organization for the control of athletics; it has provided facilities, built schedules, and furnished instructors for the purpose of filling these educational needs.

Sports such as football, baseball, basketball, soccer, track, wrestling, swimming, tennis, gymnastics, lacrosse, golf, and cross-country, are conducted for the purpose of providing our young men with activities that not only will prove beneficial to their health but also will give them a training which will be valuable when they are called upon to coach these sports.

It is the policy of the College Administration first, to provide a variety of sports, as indicated above, in order that as many young men as possible may participate in the activities which interest them most and in which they may achieve a high degree of personal skill; second, to provide eligibility rules that are just and sensible, yet will insure good scholarship; third, to provide schedules which are in our college class,

yet are in keeping with the traditions and standing of our College; fourth, and finally, to give athletics their rightful place in our educational program of preparing teachers so that they will function properly in the life of the student body, but will not assume an importance out of all proportion to their value.

The West Chester State College is a member of the National Collegiate Athletic Association, the Middle Atlantic States Collegiate Athletic Conference, the National Association of Intercollegiate Athletics, the I.C.4A., and a charter member of the Eastern Collegiate Athletic Conference. In addition, West Chester conforms to the eligibility standards set by the Board of Presidents of the Pennsylvania State Colleges.

The athletic program at West Chester provides adequate player and spectator opportunities. Facilities and equipment are of the best. All team coaches are regular members of the faculty.

Men's Intramural Athletics

An athletic program cannot be justified educationally if it is confined to intercollegiate competition alone. There must be provision for all students. The policy of the College Administration to expand this part of the program for both men and women in order that a variety of activities may be supplied for all of our students. Such sports as touch football, swimming, soccer, tennis, basketball, roller hockey, track, speed ball, soft ball, and volley ball are organized and conducted for the men students.

WOMEN'S ATHLETICS

In the best interests of the women students a program of athletics is provided with an opportunity to participate in a variey of athletic activities including team, individual, and dual sports. Through participation, leadership responsibilities are developed in the planning, organizing, and functioning of these sports as a part of the total college program. All women students are eligible to participate in the intramural program under the direction of the Women's Athletic Association (WAA) and/or the intercollegiate sports which are conducted by the Women's Intercollegiate Athletic Program.

Women's Athletic Association—Intramurals

Intramural athletics for women are conducted by the Women's Athletic Association for the social, physical, and recreational benefits of the women students at the college. The governing council consists of the club officers and sports managers who are elected by the students, and a faculty adviser. Its program provides a range of activities including hockey, volleyball, basketball, tennis, softball, table tennis, lacrosse, and

badminton. The basic purpose of the organization is to foster good sportsmanship and to promote and increase participation in intramural sports for women. For the individual participant, an opportunity is provided to develop skills in leisure time activities which may continue after college. Personal satisfaction and enjoyment are the desired outcomes of sport activity.

The WAA belongs to the National Athletic and Recreation Federation of College Women and the Pennsylvania Division of the Athletic and Recreation Federation of College Women.

Women's Intercollegiate Athletic Program

The activities of the WIAP are conducted by the director of the program, the women coaches, and a student advisory council consisting of the managers of the varsity sports. The managers are selected by the coaches. The program includes a variety of team and individual sports, such as hockey, swimming, lacrosse, basketball, tennis, and synchronized swimming. This program provides opportunities for wholesome competition with other college women of comparable skill. Activities are planned in accordance with the highest ideals of good sportsmanship. Students participating develop interest and skill in worthy leisure time activities, further cultural understanding and appreciations through contacts with students from other colleges, gain knowledge and experience of coaching procedures and techniques.

The entire women's intercollegiate program is guided by the standards and policies of the Division of Girls and Women's Sports, which is a division of the American Association of Health, Physical Education and Recreation. A basic over-all standard of the above named organization is "The one purpose of sports for girls and women is the good of those who play."

The accident insurance referred to under the section entitled "Student Health Service" has been made compulsory by the College Board of Trustees for all students.

Student Health Service

The College assumes no responsibility for furnishing or paying for medical care to sick or injured students beyond first aid treatment. Qualified physicians and hospital facilities are available in the community of West Chester. Students over 21 and parents or guardians of students under 21 are required to sign a prescribed statement authorizing the College, or its agents, to refer such students to local doctors or hospitals for any and all emergency medical care.

All costs of medical or surgical treatment, including hospitalization, must be borne by the student involved or by parents or guardians. How-

ever, a group medical and accident policy approved by the College covering accidents and illnesses on a twelve months basis is available at an annual premium of $22.50.

Student Accident and Sickness Insurance Plan

Effective with the opening of the academic year 1961-1962, the Board of Trustees established a regulation requiring all students to carry the accident insurance plan. This plan may be purchased for $7.50.

Students and parents are requested to consider seriously the splendid protection offered by the two policies and the low cost. THE INSURANCE IS IN EFFECT FOR A TWELVE MONTH PERIOD WHETHER THE STUDENT IS ON CAMPUS, TRAVELING, OR AT HOME.

Placement Service

The West Chester State College maintains an active Education Placement Service. The Placement Director has general charge of the service. He is assisted in this work by the heads of the special curricula and by the Committee on Placement composed of the Dean of Academic Affairs and Supervisors of Student Teaching.

Members of school boards, superintendents, supervising principals, and others in need of teachers, are requested to make application to the Placement Director as early as possible. The Placement Service is in position to send out thorough and adequate information concerning each of the graduates of the College. This material is available to any school official who desires the information in connection with an application made by one of our graduates. The information covers scholastic standing, a comprehensive evaluation of the individual's student teaching experience, and general evaluations of personality, character, competency, and professional potentialities by members of the individual's major and minor departments together with a definite statement compiled by the graduate himself.

An active file is maintained in the Placement Office listing teaching positions by curriculum. This file is for West Chester students and graduates only.

Graduates of the West Chester State College are asked to keep in touch with the Placement Director in order that they may be recommended for better positions demanding experience. Graduates are also asked to keep the office informed of vacancies so that these positions, in turn, may be brought to the attention of teachers not placed.

The Pennsylvania Regional Film Library

The College operates a film library service for the schools in the service area surrounding West Chester. The service includes rental of films, film-strips, and projection equipment. All schools and church or-

ganizations in Bucks, Chester, Delaware and Montgomery counties are eligible for these services.

The library was established through the State Department of Public Instruction. It maintains some five hundred titles on 16 mm. motion picture film and over twelve hundred titles on filmstrip.

Further information can be had by correspondence with: The Pennsylvania Regional Film Library, West Chester State College, West Chester, Pa.

The Delaware-Chester Regional Film Library

The Delaware-Chester Regional Film Library is housed on the college campus. This two-county film library has over 1700 films at present, all instructional, in many fields of elementary and secondary education. The Delaware-Chester Film Library is the first joint regional film library to be formed in the state of Pennsylvania under a state supervised plan.

Membership in the Library is limited to the public schools of the two counties, who pay on a per pupil basis. There are 57 school systems now belonging, with a pupil enrollment of over 70,000.

College faculty may make use of the facilities of the Delaware-Chester Film Library. All applications must be made through the College Film Library in room 13.

Classification of Students By Year of Study

Students in the College are classified according to the number of semester hours of credit which they have earned:

Freshmen .....31 credits or less

Sophomores .....32-63 credits inclusive

Juniors .....64-95 credits inclusive

Seniors .....96 credits or more

Special .....Those who are not working on a degree program or who are so classified for other reasons.

Marking System

The marking system now in effect at the West Chester State College is as follows:

Mark—Interpretation	Percentage Equivalents	Quality Points
A—Excellent	A—90-100	4
B—Superior	B—80- 89	3
C—Average	C—70- 79	2
D—Below Average	D—60- 69	1
E—Failure with re-examination privilege		
F—Failure	F—59 or lower	0
I—Incomplete (See "Special Provisions".)		
WF—Withdrew Failing		
WP—Withdrew Passing		

Percentage Equivalents

For those who prefer to think of the marking in terms of figures, it has been determined that each letter represents the range of per cents shown in the second column.

Scholastic Index:

The minimum scholastic index required to remain in good academic standing and for graduation is a 2.00 (C average) for all work taken at the College. This index is obtained by dividing the total credit hours into the total quality points.

Scholastic Index = Total Quality Points ÷ Total Credit Hours

Explanation:

The marking system provides that a "C" be interpreted as the average accomplishment; a "B" as accomplishment superior to the average, and an "A" very superior or exceptional work. A mark of "D" represents accomplishment inferior to the average and indicates the lowest type of work that will be accepted as of passing grade. An "F" represents that accomplishment wherein the quality of work done by a student is below that represented by a "D". A mark of "F" implies that the course must be repeated by the student.

Special Provisions Related to the Marking System:

If because of personal illness certified by a physician or other approved reasons, a student is not able to meet the requirements of a course at the close of a semester, a mark of "I" may be assigned by the instructor. This mark indicates that the work is incomplete. This work must be completed satisfactorily by the end of the ninth week of the semester following the giving of the mark. Failure to meet this require-

ment will result in the "I" grade being changed to an "F" on the permanent report card. In no case is a student given a mark of "I" in any course when the cause of incomplete work is irregular attendance, negligence, unexcused absence from final examination, or inability to do college grade work.

When a student fails a course by a margin so close that the instructor believes that a re-examination is justified, the student may be marked "E." In all cases where an "E" is assigned, the student must take the re-examination by the end of the ninth week of the semester following the giving of this mark. The final mark for an "E" (re-examination privilege) cannot exceed a "D." Failure to meet this requirement will result in the "E" being changed to an "F" on the permanent record card.

Scholastic Requirements

A student admitted to the West Chester State College must show that he has capacity to do academic and professional work of college grade.

Students who earn a scholastic index of less than 2.00 ("C" average) during a semester will automatically be placed on academic probation if they qualify for admission to the subsequent semester.

Students who earn a scholastic index of less than 2.00 ("C" average) during a period of academic probation will be subject to dismissal from the College.

1. Freshmen whose cumulative averages are below 1.75 at the end of two semesters are automatically dismissed from the College.

2. Upperclassmen whose cumulative averages are below 2.00 are automatically dismissed from the College.

Students should consult the Student Handbook for complete information regarding scholastic requirements.

Full-time students (those who carry 12 semester hours of credit or more) who do not pass at least ten semester hours of work during a semester will be dismissed from the College.

Students dismissed for academic reasons will not be eligible to apply for readmission for at least one regular academic semester. Application for readmission must be filed with the Director of Admissions at least 30 days prior to the beginning of the semester for which admission is desired.

These policies are under study by the Committee of Academic Standards and are subject to revisions.

Requirements for Junior Standing

(This policy is effective for the class entering September, 1962, and all subsequent classes.)

In order to qualify for Junior Standing, the student must fulfill the requirements stipulated below:

1. Junior Standing shall be based on the accumulation of not less than 60 semester hours of credit and the attainment of a minimum cumulative scholastic index of 2.00 with no failures outstanding.

2. Students must attain a minimum percentile rank (as established by the Academic Standards Committee) on the sophomore administration of the Reading and Writing STEP Tests.

3. The mastery of the field of specialization shall be determined by the major department involved. The use of STEP Test scores other than those previously mentioned is at the discretion of the department. Personal fitness to teach, including freedom from defective speech, shall also be determined by the major department.

Reports to Parents

The office of the Registrar will mail a report of each student's marks to his parents or guardian after the close of each semester. This requires approximately 15 days after all grades are reported by the faculty.

Honors Lists

The Honors Lists will be published at the close of each semester.

High Honors List—Scholastic Index of 3.50—4.00

Honors List —Scholastic Index of 3.00—3.49

Students maintaining the above averages during the student teaching semester will be placed on separate High Honors and Honors Lists.

Credit by Examination

A student in good academic standing may request opportunity to take a comprehensive examination in a particular course offered by the College. Such a request must be filed in duplicate and during the first two weeks of a semester on a form secured from the office of the Director of the Undergraduate Program. Requests will be reviewed by the College department involved and the Director of the Undergraduate

Program. Permission to take such an examination requires demonstration by the individual of mastery in the field. If the request is approved, the student will register for the course in the usual way and will be permitted to audit the class if he desires. If credit by examination would involve an over-load, the student must have "Honors List" standing. The semester hours of credit earned by examination will apply toward graduation requirements.

Advanced Placement Program

Courses taken before admission to college under the Advanced Placement Program conducted by the Educational Testing Service, Trenton, New Jersey, may be applied towards graduation requirements by students who are admitted to the college to pursue one or more semester's work. To secure such credit the student must make formal application to the office of the Director of the Undergraduate Program. The course must satisfy college requirements and the score on the Educational Testing Service examination must be satisfactory to College officials. If request for Advanced Placement standing is approved, the student will register for the course and pay the established fee. Not more than fifteen (15) credits earned by such examination may be applied toward graduation requirements.

The Educational Testing Service does not handle this program but cooperates in certain matters concerning it. Information can be received from Advance Placement Program, College Entrance Examination Board, 475 Riverside Drive, New York 27, New York. However, all correspondence concerning the examinations should be addressed to College Board Advance Placement Examinations, Box 592, Princeton, New Jersey.

Student Teaching

Student teaching is to be taken in the seventh or eight semester and normally culminates the professional experience in preservice preparation for teaching. Students should file applications for admission to student teaching during the spring semester of their junior year. An announced meeting is held in February for this purpose.

To be eligible for student teaching, candidates must have senior standing (96 semester hours) and a scholastic index of 2.00 (C) or higher.

Applications for admission to student teaching are reviewed by the department or departments in which the applicant wishes to secure certification, by the Director of the Undergraduate Program, and by the Director of Student Teaching.

Remedial Instruction

New students whose records are low on the College Board Examinations, which are required of all incoming students, may be required to

carry fewer semester hours of credit than a normal class load and may be required to attend without credit remedial classes in English and/or Reading.

Resident Credit Requirement

The last thirty (30) semester hours of credit must be taken at West Chester to qualify for graduation from a degree curriculum. Resident credits may be earned in day, evening, and Saturday classes which are offered on campus.

Class and Assembly Attendance

Regular and punctual attendance at classes and assemblies is considered essential to sound scholarship and good campus citizenship. Upon enrolling in the College, each student is supplied with a student handbook which contains a statement of the absence policy. Enrollment in the College implies agreement on the part of the student to conform with its provisions.

Freshmen and Sophomores are required to attend all assemblies. Juniors and Seniors are encouraged to attend.

Withdrawals From College

The student must notify the Director of the Undergraduate Program in writing, stating the reason for his intention of withdrawal from the College and the date of his withdrawal.

Should a student fail to comply with this requirement, the administration will, after ten days of unexplained absence, declare the student not a member of the College. The date on which his connection with the College terminates will be the day on which he last attended classes.

When a student discontinues his work at the College, either for illness or any other reason, he must notify the Director of the Undergraduate Program as soon as possible; otherwise he will receive marks of "F" in each of his courses on his permanent record card. This will result in difficulty in re-entering the College or in securing admission to another institution.

Transcripts

Applications for official transcripts should be made to the Office of the Registrar.

A copy of the student's entire record (a transcript) is attached to his application for certification in the State of Pennsylvania. This transcript is provided free of charge.

There is a fee of one dollar for the second and each subsequent transcript. Checks must accompany requests and should be made payable to the Commonwealth of Pennsylvania.

Transcripts are considered **official** only when sent directly to the school or college authority who is to evaluate and/or record them. Therefore, transcripts sent to students are **not** official and do not bear the state seal. Most states and most school and college authorities accept only **official** transcripts.

Names and addresses to whom transcripts are to be mailed should be included with applications.

No charge is made for transcripts sent to Pennsylvania school officials in connection with applications for a position.

Dismissals From College

Administrative officers and the student councils may make recommendations to the President for suspension and dismissal. No student shall be suspended or dismissed from the College except upon the approval of the President.

Student Class Load

A full-time student's schedule must have a normal load which is 12-17 semester hours of credit. No student shall be permitted to schedule more than 34 semester hours of credit in one academic year without the approval of the Director of the Undergraduate Program.

Withdrawals from a Course

Approved withdrawal from a course is not permitted without justifiable reason and must be approved by the Department Chairman and the Director of the Undergraduate Program.

A student may receive approval to withdraw from or "drop" a course during the first four (4) weeks of a semester. In the case of summer sessions, he may withdraw during the first three (3) days of a Pre- or Post Session and during the first week of Regular Session. No notation of this course will then appear on the student's permanent record. Except for special reasons and emergencies, withdrawal from a course is not permitted after the first four (4) weeks of the semester or as indicated for the summer sessions.

Faculty will record a grade of "WP" if the student's work is passing and "WF" if the student's work is failing at the time of approved withdrawal. A grade of "F" will be recorded if a student withdraws from a course without approval. A grade of "WF" receives the same penalty in quality points as an "F."

Students wishing to withdraw or "drop" a course should follow the procedure listed below:

1. Student should secure a "Drop Schedule" from the office of the Dean of Academic Affairs.
2. Student should confer with the faculty member regarding withdrawal.
3. Faculty member should confer with the Department Chairman who will make any comments regarding approval or disapproval of student's request.
4. Faculty member returns "Drop Schedule" form to the office of the Director of Undergraduate Program, by mail, for final disposition of the request.

Classification of Students by College Program

Regular Student—All undergraduates who are admitted to a degree program in Elementary Education, Secondary Education, Health and Physical Education, Music Education, and Liberal Arts. All students classified in this category must carry a total of at least 12 semester hours credit in a semester.

Special student — any student other than the above who is pursuing a program which, when completed, will comprise twelve or more semester hour credits. Such program types include:

a. Degree program for Public School Nurses;

b. Degree program for Dental Hygienists;

c. Certification program for college graduates seeking teaching certificates;

d. Other non-degree program for purposes of fulfilling requirements imposed by other colleges, self-improvement, special interest, etc.

Entrant — any student accepted for attendance at the college and restricted to a total accumulation of nine semester hour credits.

Notice of Anticipation of Graduation

It is the responsibility of the student to report to the Office of the Director of the Undergraduate Program at least three months before the date of his anticipated graduation. It is the student's responsibility to see that his name is placed upon the list of prospective graduates and to indicate at that time the way his name should appear on the diploma. If he fails to do this, his graduation will be postponed until the next regular commencement.

Each student must, of necessity, assume responsibility for seeing that he meets all of the requirements for graduation outlined in the college catalog. These include the meeting of all general and professional edu-

cation requirements, requirements in major and minor fields, a total of one hundred twenty-eight (128) credits, and a minimum scholastic index of 2.00 or "C" average.

Graduation

A student will be recommended for graduation when all the requirements for his curriculum have been met. Diplomas will not be issued until all bills and obligations to the College have been met.

The Alumni

The West Chester State College alumni number approximately fifteen thousand, and their devotion to the College is marked. The annual meeting held at the College just before commencement is well attended and active branch organizations hold meetings at the following places: Allentown, Atlantic City, Bethlehem, New York City, Pottsville, Reading and York. The Tri-County organization consists of graduates living in Delaware County, Montgomery County, and Philadelphia.

SELECTIVE SERVICE INFORMATION

The Director of the Undergraduate Program is the College adviser on Selective Service. Students wishing advice on this subject should apply at his office in the Philips Memorial Building.

A student seeking deferment must complete at the end of each college year an SS109 Form which will be submitted to the student's local Selective Service Board by the Director of the Undergraduate Program. These forms can be secured from the Dean of Men and the Dean of Student Affairs.

STUDENT LIFE

Classification of Students: Commuting—Resident

1. **Resident Students.** Resident students are of two types:

   a. **Dormitory Students**—those who live in a college dormitory and take their meals in the College dining room. All dormitory students are required to eat in the College dining room.

   b. **Off-Campus Students**—those who are assigned to a College approved off-campus residence by the Dean of Women or by the Dean of Men.

      All off-campus rooms must be assigned by the Dean of Women or Men. Students living in off-campus housing are required to eat their meals in the College Dining Room.

c. **Day (Commuting) Students** are those who live at the home of their parents or legal guardians and commute daily to and from the College. Those driving cars must register with the Dean of Men.

The classification of students is determined by the Deans of Women and Men. These deans advise on the living conditions of all students.

Resident Students are required to eat in the College dining room. The Dean of Student Affairs may approve exceptions to this rule in very rare cases.

Application for permission to eat out of the College dining room must be filed in the office of the Dean of Student Affairs two weeks before the opening of each semester. The College Health Service will review each application based on a health condition when the family physician has submitted a detailed diagnosis with a laboratory report such as blood count, urinalysis, and basal metabolism test *

Housing

The College has more than 500 rooms for women and approximately 300 rooms for men in respective dormitories. Rooms are provided in private homes for **Off-Campus Students**. These rooms are inspected and approved by the Dean of Men, and Dean of Women. **Off-Campus Students** are under the same college regulations as all other resident students.

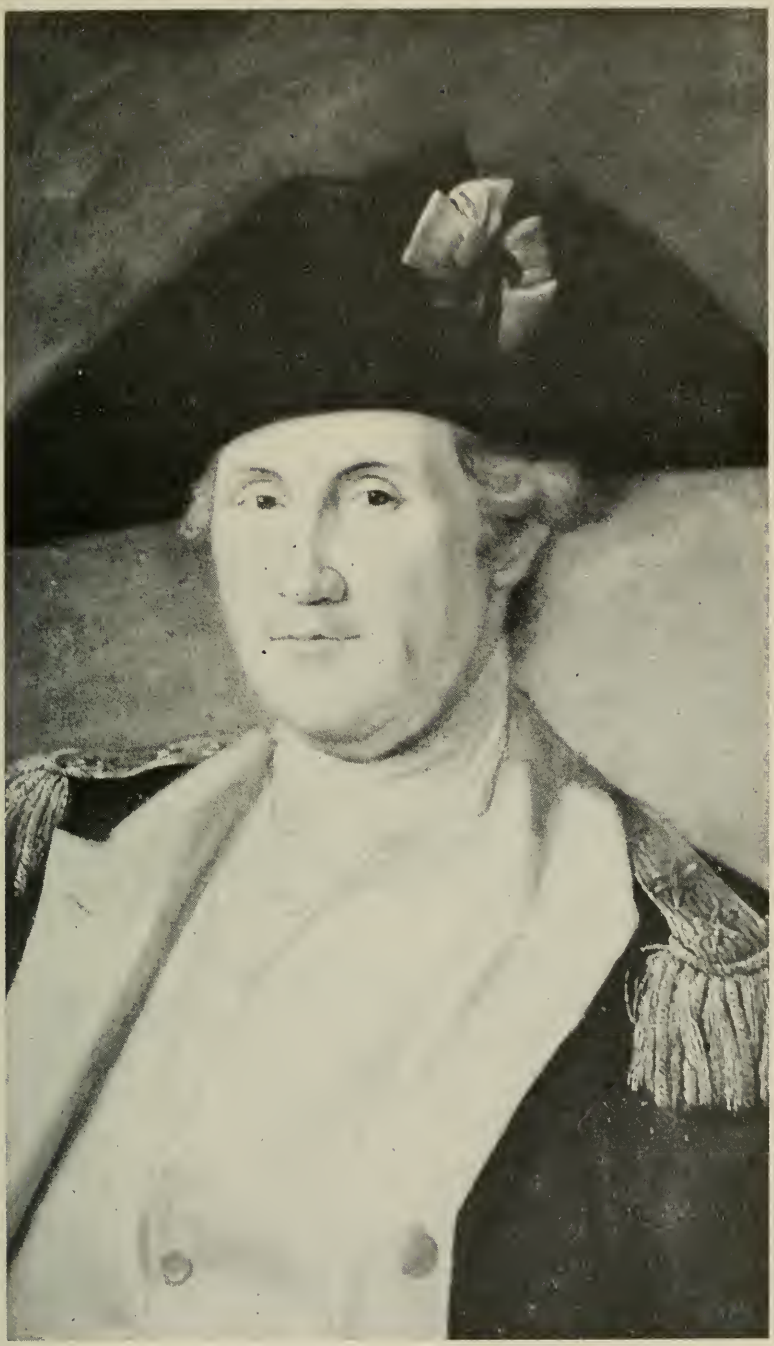
Students who live in the college dormitories are provided with bed linens and counterpanes. All other bed furnishings and toilet necessities are provided by the students.

The College cannot provide housing or apartments for married students and their families. It is the responsibility of the individual to secure housing facilities prior to registration day. Local real estate agents should be consulted.

Regulations Concerning Dormitory Students

A student who accepts an assignment in any college dormitory at the beginning of a semester or session will be responsible for the payment of the room rent fee for the entire semester or session. Exceptions will be made only in cases of personal illness, the same being certified by an attending physician, or for such other reasons as may be approved by the President of the College and the Board of Trustees. A student

* The College Infirmary must be furnished with a diet list prepared and signed by the family physician. This list should be made out in duplicate, one copy to be kept at the eating place of the student's choice and the other to be placed on file at the Infirmary.



PEALE PORTRAIT OF WASHINGTON

This portrait, which was done by Charles Wilson Peale in 1778, hangs in the Philips Memorial Building. It is owned by the Alumni Association of the West Chester State College.

admitted to a college dormitory after a semester or session begins will be responsible for the payment of the room rent fee for the balance of the semester or session on a prorated basis.

Regulations Concerning Dormitory Guests

A dormitory student is permitted to have an overnight guest on Friday and Saturday nights ONLY when there is an available bed. The guest **must be registered with and approved** by the Dean of Women, in the case of women students, or the Dean of Men, in the case of men students. A charge of $1.56 per night is required for each guest. Resident students will be **responsible individually for the observation of this regulation.**

Student Automobile Regulations

Resident students who have valid reasons within the existing College Automobile Regulations may maintain and operate automobiles on campus, providing they apply for and obtain permission from the **Dean of Men or Women** prior to bringing automobiles on campus.

Commuting students will be granted permission, upon application to the **Chief of Security,** to drive automobiles to and from the College daily.

College Book Store

The College Book Store carries, in addition to books, a complete line of student necessities. This book store is operated as a student enterprise, the net profits of which accrue to the benefit of the Student Activities Association.

EXTRA-CURRICULAR ACTIVITIES

The developing of the extra-curricular program, fitting it to the needs of the students, and co-ordinating its various phases into the whole of college living is the responsibility of the Dean of Student Affairs. Questions of policy and regulations, the evaluating of the objectives of an activity, and other problems are acted upon by the Student Affairs Council.

The program of extra-curricular activities at West Chester emphasizes four types of activities leading to individual and group development. The various clubs, organizations, activities, and responsibilities are grouped under one of four headings according to type of development emphasized. The following indicates the four types together with some of the activities included in each phase.

Type A: Activities that center around college group life; activities of college community government and living, such as: Student

Activities Association Executive Board, Student Councils, Class Committees, Epicurean Club, Quad Angles, Student-Faculty Committees, Serpentine, Press Board, Little Theatre.

Type B: Activities that promote better professional development—that train for sponsorship and organization of "extra-class" programs in the public schools. The various departments of the College sponsor professional clubs, such as: Association of Childhood Education, English, French, Geography, Mathematics, Music, Social Studies, Science, men's and women's sports activities for health and physical education students.

Type C: Activities that promote finer ethical values. These groups have organized a Council of Religious Clubs that plans for a unified program for the year as well as emphasizes ethical action as a unified front; it is through united effort in this area that we may raise the standards of honor and character on the campus. The organizations in this group are: Inter-Varsity Christian Fellowship, Hillel Foundation, Newman Club, and Student Christian Association.

Type D: Activities that satisfy individual interests. These activities are those of hobby groups and include a long list, such as: art, athletics, glee clubs, photography, phonograph, nature study, orchestra, etc.

Each student is urged to participate in the activities of a club for one semester of each of the four years on campus. The Student Affairs Council and the Student Affairs Division ask the co-operation of the students in taking advantage of the varied types of extra-curricular activities that are offered.

No student is permitted to hold more than one office in one semester. It is hoped that in this way it may be possible to spread opportunity and divide responsibility, thus develop leaders and discover latent abilities as well as continue to enjoy the services of those who are naturally inclined to direct affairs.

Students are urged to take into account the fact that their extra-curricular participation often has an important bearing upon their placement when seeking positions. Students should keep in mind not only the placement value of their extra-curricular program but also its cultural value.

PUBLICATIONS

QUAD ANGLES, the student newspaper, is published by an undergraduate staff. Positions in the organization are open to any member of the student body with reporting or editing ability. A faculty member serves as adviser.

THE SERPENTINE is the college yearbook published under the direction of the Senior Class. This record of college activities is edited by a student staff with a faculty adviser.

THE RAM'S HORN is a publication of the Varsity Club produced on the occasion of each home game of the football season. The staff is made up from the undergraduate body of the College aided by a faculty adviser.

THE HANDBOOK is published each year as an aid to incoming freshmen. It is prepared by a student staff with the advice of a faculty sponsor.

SCHOLARSHIPS

The College does not have scholarships to offer incoming students. Scholarships in the form of financial aid which students receive from other sources may be used at West Chester.

The following scholarships are available to West Chester students who qualify for them:

William Pyle Philips Scholarships

The William Pyle Philips full tuition (basic fee) scholarships are available to junior and senior students. To be eligible for these scholarships, **students must be natives of Chester County.** There are 20 to 25 scholarships awarded each year, the beneficiaries of which are selected on the basis of scholastic ability and citizenship.

The Samuel Martin Scholarship Bequest

This is a fund which was left by the will of Mr. Samuel Martin "to be used to defray part of the expenses of persons of limited means who are preparing to teach . . . Persons who are assisted shall preferably be educated at West Chester Normal School" (now West Chester State College). "Children of Friends, or persons in sympathy with Friends are preferred." Persons wishing to obtain the benefits of this fund will inform Elbert N. Pusey, Esquire, 30 West Market Street, West Chester, Pennsylvania.

The Sarah H. Mellor Scholarship Fund of the Chester County Council of Parent-Teacher Associations

Mrs. Sarah H. Mellor was associated with the West Chester State College as student, teacher, and member of the Board of Trustees. Her interest in education in general, in children, and in youth found expression in her devotion to the work of the Parent-Teacher Associations, especially those in Chester County. It was, therefore, most fitting that

the Chester County Council of Parent-Teacher Associations memorialize her through this scholarship. A Joint Committee from the Chester County Council of PTA and the College makes the award annually to a Chester County student who is in attendance at the West Chester State College. This award of $100, each year is based upon the need, personality, character, and scholastic ability of the student.

Hannah Kent Schoff Memorial Scholarships

The Pennsylvania Congress of Parents and Teachers, believing that there is great value in offering financial aid to worthy students who are preparing for the teaching field, for many years has maintained a memorial loan fund in honor of its first president, Mrs. Hannah Kent Schoff. In 1957 this loan fund became the Hannah Kent Schoff Memorial Scholarship fund. Outstanding students are recommended by their high schools and may become candidates for these scholarships to Pennsylvania State Colleges. Each scholarship is an outright grant of $150 per year, or $600 for the four years. The money is paid directly to the college and is applied to the student's account. These scholarships are valid only at the fourteen Pennsylvania State Colleges. Application forms, which should be secured from the High School Guidance Counselor, must be filed with the State College of the applicant's choice before March 1st.

The David M. Sensenig Memorial Scholarship

In memory of Dr. David M. Sensenig, who was Head of the Mathematics Department of the Normal School from 1895 until 1908, a scholarship is awarded annually to two juniors who have shown outstanding ability and achievement in Mathematics. The award is a $50 United States savings bond.

Kift-Mullen Memorial Scholarship for Future Teachers

The scholarship has been inaugurated by the Robert L. Kift-Thomas R. Mullen, Jr. Memorial Fund, Inc., provided for by the Lehigh Structural Steel Company, Allentown, Pennsylvania. To apply for this scholarship, students must be either juniors or seniors and must be graduates of Allentown High School or Allentown Central Catholic High School. The amount of the scholarship is $200. per year.

The Theodore Presser Foundation Scholarship

A scholarship for music students is awarded by the Music Department, with the approval of the President of the College. The amount granted totals $400 yearly, as approved by the Board of Trustees of the Presser Foundation. This award was first granted to West Chester in 1929 and is available to juniors and seniors in the music curriculum.

Music Department Scholarship of the General Student Fund

Three scholarships, each in the amount of $100. are awarded during the sophomore year to sophomore music education students. Col-

lege citizenship and performance in the area of applied music are the factors considered in making this award.

SICO Scholarships

The SICO Company of Mount Joy, Pennsylvania, has established one scholarship of $300 each year for students who are to enter the West Chester State College in the field of Elementary Education. The applicants for these scholarships must have legal residence in Chester, Berks, Cumberland, Dauphin, Lancaster, Lebanon or York Counties, or the State of Delaware, and must apply for the scholarship in their senior year of high school through the high school guidance counsellor. The scholarships are awarded on the basis of competitive examinations that are held at the College in March of each year.

Friars Memorial Scholarship

This scholarship is in memory of all those West Chester men who lost their lives in World War II. The amount of the scholarship is $100 awarded when the society is able to the junior male student who has been selected on the basis of 1) Leadership, 2) Character, 3) Friendship, 4) Financial need, 5) Academic achievement, and 6) Contribution to the development and improvement of West Chester State College.

The Southeast Delco Lions' Scholarship

The members of this organization have established a scholarship for a graduate of the Yeadon, Darby-Colwyn, Collingdale or Sharon Hill Borough high schools. In order to be eligible, students must meet the following qualifications: (1) be a commuting student; (2) have commendable sophomore standing at West Chester State College; (3) have exhibited good campus citizenship and participated in the College's extracurricular program; (4) continue their education at West Chester State College with average or better than average grades; (5) be in need of financial assistance.

The amount of the scholarship is to be one thousand dollars ($1000.00). Three hundred and twenty-five dollars ($325) will be awarded at the beginning of the Sophomore year; three hundred and twenty-five dollars ($325) at the beginning of the Junior year; and three hundred and fifty dollars ($350) at the beginning of the Senior year, provided the above requirements are met annually. The first scholarship is to be awarded in September 1961 and it is the intention of the Club to award this Scholarship every three years. The recipient will be chosen by the scholarship committee of the Southeast Delco Lions' Club and the West Chester State College.

Valkyrie Club Scholarship

The scholarship, which amounts to $100 each year, is awarded to a member of the Valkyrie Club in her junior year and is to be applied to

the payment of college expenses. The award is made on the basis of academic scholarship, need, and service to the Club.

York County Alumni Club Award

The members of this organization have established the Elsie O. Bull Scholarship fund to be awarded each year by a Special Committee of Awards to a person from York County who is attending, or will attend, West Chester State College. The award is made on the basis of the need, ability, and achievement of the student considered.

Schuylkill County Alumni Club Award

A fund has been created by this group, to be awarded each year by the Scholarship Committee of the Club, to a person from Schuylkill County who is attending the West Chester State College. Need, ability, and promise are the prerequisites necessary for consideration.

Bethlehem Alumni Club Scholarship

The Bethlehem Alumni Club has set up a scholarship amounting to $200 per year, which is awarded to a student from the Bethlehem High School or the Bethlehem Catholic High School. This award is made directly to a senior in the above mentioned high schools by the Alumni Club.

Scholarship Awarded by the Delaware County Federation of Junior Women's Clubs

A fund has been created by this group to be awarded by the Scholarship Committee of the Club to one or more junior class women from Delaware County who are in attendance at the West Chester State College. The amount of this award varies but averages over $100 a year.

State Department Scholarship

The State Department of Public Instruction offers a scholarship of $200 per year for four years to the student earning the highest score in the competitive examinations given in each county. This scholarship may be used at West Chester. If a student is interested in competing for this scholarship, he should apply to his high school guidance counsellor.

H. and P.E. Department Scholarship

The Health and Physical Education Department has a scholarship fund subsidized by income from the Quadrennial show. Monies accruing from the performance of every fourth year are placed in the General Student Fund account to the credit of this scholarship fund.

Each academic year, dependent upon the monies available, three

(3) $100.00 scholarships are awarded to second semester sophomores. The recipients are bound to use their awards for bona fide or stipulated college expenses. The criteria upon which all potential recipients are judged concern the following points which of necessity are not of equally weighted value.

1. Outstanding scholarship.
2. Campus leadership including contributions to both the major department and the college in general.
3. Need.
4. Citizenship.
5. Character.
6. Ability in specific areas of the major field.

The men's and women's staff may furnish a preliminary list. Major department sponsored student groups such as Valkyrie Club, Major Club, Exhibition Group, Experimental Dance Group, etc., may suggest candidates to the screening committee.

Charles S. Swope Memorial Scholarship Fund

This scholarship has been established by the Swope family and by the generous gifts of many of the alumni and friends of the late President Swope. The purpose of the scholarship fund is to aid and assist such students as the Scholarship Committee may determine are of moral, mental, intelligent, and physical well-being, and who have demonstrated academic achievement, participated in extra-curricular activities, and shown a sincere desire to prepare for the teaching profession.

Any male student in order to qualify for this scholarship must be willing upon the completion of his formal college training to serve in the military service of his country contingent upon the needs under the Selective Service Act.

Application forms for this scholarship may be obtained at the office of the president of the college.

LOANS

The College endeavors to aid needy and deserving students to take advantage of their educational opportunity. A student whose record is satisfactory, both in academic achievements and in respect to personal and community responsibility, may feel that his application for financial aid will receive favorable consideration. Applicants should apply at the Office of the Dean of Student Affairs for the necessary forms.

There are several Loan Funds from which a student may seek financial assistance. These are listed below.

National Defense Student Loan Fund

The specific purpose of this Government Loan Program, established under the National Defense Education Act of 1958, is "to stimulate and assist in the establishment at institutions of higher education of funds for the making of low-interest loans to students **in need** thereof to pursue their courses of study in such institutions." While making these loans available to needy students in any field of study, the Act specifies that "in the selection of students to receive loans . . . special consideration shall be given to (a) students with a superior academic background who express a desire to teach in elementary or secondary schools, and (b) students whose academic background indicates a superior capacity or preparation in science, mathematics, engineering, or a modern foreign language." Further information concerning these loans, as well as application forms, may be secured from Dr. Jack A. Owens, Institutional Representative for this Loan Fund.

General Student Alumni Loan Fund

This is a fund which was created by the Alumni Association to aid needy students. The maximum loan is $100 per year. These loans must be used exclusively for college expenses. Applicants must be good students and in need of this loan to continue their college education. Legal security is required. No interest is charged.

Loans must be repaid before graduation or prior to registration for the next academic year.

The Student Activities Association Loan Fund

The Student Activities Association, a student organization on the College Campus, has set aside a fund to assist needy students through loans. Each application is decided upon its own merits by a Committee. Application forms may be secured from the Office of the Dean of Student Affairs.

Loans must be repaid before graduation or prior to registration for the next academic year.

Viola Marple Scholarship Loan Fund

In accordance with the will of Miss Viola Marple, former teacher in the English Department at the Normal School, two scholarship loan funds were established for the education of two deserving young women in need of financial aid, "whose whole record of ability, scholarship, and Protestant Christian character gives evidence of fitness for teaching and promise for future usefulness; the said loan to be made to such students each year as may be selected by the President and the English faculty." Renewal of any loan may be granted if the scholastic conditions are maintained. The awardees are required to sign promissory notes which will bear no interest, but will be payable after graduation.

B'nai B'rith Loan Fund

The Alan Kodish Lodge of B'nai B'rith, West Chester, Pennsylvania, has established a loan fund for needy and deserving students, whereby short term loans may be made up to $100. This loan is available to any student who is doing satisfactory academic work and who needs additional funds to continue his college education.

Loans must be repaid before graduation or prior to registration for the next academic year.

For further information on any of the above listed loan funds, students should consult the Dean of Student Affairs.

STUDENT EMPLOYMENT

Applications for the various types of student employment are accepted after May 1 of each year. Appointments for the year are made about July 1. Applications must be renewed each year.

Student Help Assistants

The College employs a limited number of students as helpers in some of the departments of the College; for example, the library, laboratories, and offices. Positions pay eighty cents an hour, the amount earned depending upon the number of hours employed during a month. Part-time positions require twenty-five hours of work per month; full-time positions require fifty hours work each month. Most of these jobs require some special form of training or skill. The money earned must be used exclusively for college expenses and is available primarily for those who could not otherwise attend college.

Student Waiters

Each year a number of men students are employed as waiters for the dining hall. Students thus employed are paid on an hourly basis

and may earn from $375. to $400. for the year. Such positions are primarily available for those who could not otherwise go to college. The money thus earned must be used exclusively for college expenses.

Part Time and Odd Jobs

The Office of the Dean of Student Affairs offers to assist students who wish to earn money toward their college expenses. Students may register for such part time work or odd job work as may come to this office from the campus or community. While every effort is made to obtain places for those who wish employment, students should not depend upon this source for any regular income. The opportunities range from a few dollars to nearly $200. for the college year. Students who enter college with training in some special field are able to earn more than those with little or no training.

PATTERN FOR HANDLING GRADUATE ASSISTANTSHIPS, SCHOLARSHIPS, AND/OR FELLOWSHIPS OFFERED BY OTHER COLLEGES AND UNIVERSITIES

Senior students planning to take graduate work at other colleges and universities may obtain information regarding scholarships, assistantships and/or fellowships from the file maintained in the Office of the Dean of Student Affairs, Room 109 Anderson Hall. This office serves as the clearing house for all such information. Students should advise with their faculty advisor and/or major department chairmen regarding their interest in particular scholarships, assistantships, and/or fellowships. Students interested in such scholarships, assistantships, and/or fellowships should consult the materials on file in the College Library, including catalogs from the various institutions.

Admission and Fees

ADMISSION TO THE COLLEGE

Students who expect to attend college should take the college preparatory or academic course in high school. By completing such a course with good marks, an adequate background for college work will be obtained. Technically, students who graduate from other curricula may qualify for admission to West Chester if their records are good, but certain deficiencies will exist in their preparation which will require more time and greater effort to overcome while a student in college.

1. Students will be admitted to the College on the basis of satisfactorily meeting the following requirements:

A. General scholarship as evidenced by graduation from an approved secondary school, or equivalent preparation as determined by the Credentials Evaluation Division of the Pennsylvania Department of Public Instruction;

B. All candidates for admission to West Chester State College must take the Scholastic Aptitude Test and the English Composition Test of the College Entrance Examination Board. **Junior** year scores or **Senior** year scores will be accepted. The scores should be sent to the Director of Admissions directly from the headquarters of the College Entrance Examination Board in Princeton, N.J.

Students who apply for admission to the Secondary Education Curriculum and the Liberal Arts Curriculum must also take the Achievement Test corresponding to the student's intended major field.

Applicants for admission to all curricula are urged to take one achievement test of their own choosing in addition to the required English Composition Test. The College Board examinations are offered in December, January, March, May, and July but applicants who take the tests not later than January will be given preference in admissions for September. Second semester applicants *must* take the College Board tests not later than December.

Applications and all necessary information for taking the examinations may be obtained from high school guidance counselors or directly from the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey;

C. Satisfactory character and personality traits as well as proper attitudes and interests as determined by the high school principal, guidance director, or other school official acquainted with the student;

D. Good health and physical condition as evidenced by a health examination by the student's family physician reported on a

form supplied by the College. No student shall be admitted who has, in the opinion of the College, disabilities which would impair his service as a teacher. Applicants may be rejected for the following reasons:

(1) incurable defects or diseases of the heart, lungs, kidneys, digestive system, nervous system (including hysteria, epilepsy, nervous instability), skin, organs of the special senses, thyroid;

(2) defective vision of marked degree;

(3) permanently impaired hearing;

(4) marked speech defects;

(5) unsightly deformities;

(6) marked obesity.

Students with remediable defects may be accepted on condition that immediate treatment be undertaken for removal of these defects;

E. Recommendations of college staff members following an interview with the applicant. Particular attention will be paid to personality, speech habits, social presence, expressed interests, and promise of professional development. Only those students who can meet the academic requirements for admission will be invited to the College for interviews; however, an invitation to come for interviews is not to be interpreted as meaning the student has met the academic requirements for admission;

F. In addition to the College Board Tests, a student desiring admission to the Music Education curriculum must pass the Music Qualifying Tests offered by the Department. (See IV below);

G. For admission to the Health Education Curriculum, a student must meet the conditions stated in V below.

II. Foreign languages are not required for admission, but are recommended for those who elect them as areas of specialization in college.

III. To elect mathematics in College, students must present three high school units of mathematics including algebra and plane geometry.

IV. Special requirements for admission to the Music Education Curriculum.

Special attention will be given to the promise of professional development and musical ability of the candidate as shown by:

ANDERSON HALL

A. The ability to sing songs with acceptable voice and interpretation;

B. The ability to sing hymns and folk tunes at sight with a fair degree of accuracy and facility;

C. Applicants whose major instrument is piano must give evidence of mastery of fourth grade material;

D. Applicants whose major instrument is other than piano must give evidence of mastery of second grade material in piano, or, lacking this requirement, should demonstrate sufficient musical ability to remedy this deficiency;

E. Students whose major performance area is instrumental should perform on an instrument in the Music Qualifying Tests. The following are considered to be **major** orchestral instruments — violin, viola, 'cello, bass, trumpet, trombone, tuba, French horn, oboe, English horn, flute, clarinet, and bassoon. The Music faculty will audition any student who is desirous of enrolling in the Music Education curriculum on any instrument. However, the marimba, saxophone, accordion, drums, etc. are **not** considered acceptable as a major performance area instrument.

NOTE: The abilities, as stated above, will be determined by special tests in sight singing, ear training, voice, piano, and musical instruments. These tests are administered at stated times during the year. Candidates will be notified by the Director of Admissions when to come to the College for the tests.

V. Special requirements for admission to the Health and Physical Education Curriculum.

The student must have participated in both the required physical education classes and the extra curricular athletic program of his secondary school. The extent of participation in the latter along with evidence of active interest in other leadership areas will be evaluated in the pre-admission departmental interview.

VI. A student must be a citizen of the United States to be eligible for a teacher's certificate in Pennsylvania.

Evidence of Character

All applicants for admission shall present evidence of good moral character.

Evaluation of Credentials

Credentials of all students entering the West Chester State College on the basis of an approved secondary school preparation are evaluated

by College officials; students not having an approved preparation or students whose preparation is irregular, shall have their credentials evaluated by the Credentials Evaluation Division, Department of Public Instruction, Harrisburg, Pennsylvania.

Last Day for Admission of New Freshmen

All applications must be completed not later than August 15 for the fall semester or January 10 for the spring semester.

Application for Admission

High school seniors who desire to enroll for a semester beginning in September should fill in the Request for Application Forms found at the back of this catalogue and send it to the Director of Admissions in September of the senior year in high school or as soon thereafter as possible. Complete application forms and instructions will be mailed to all persons who file a request. The Director of Admissions will continue to accept applications for admission, College facilities permitting, throughout the winter, spring, and summer months of the year in which admission is desired.

A student who desires to enroll for a semester beginning in January should, about October 1 but not later than December 10, fill in the Request for Application Forms found at the back of this catalogue and send it to the Director of Admissions. Complete application forms and instructions will be mailed upon receipt of the request. January applicants must take The College Board Examinations not later than December as scores will not be available if taken later.

Readmission of Former Students

Students who have attended West Chester State College and who have withdrawn for acceptable reasons may direct a request to the Admissions Office for an "Application for Readmission." Those who have attended any institutions of higher learning since leaving West Chester must request such institutions to forward transcripts of their record to the Director of Admissions at West Chester.

Students who were dismissed or asked to withdraw for academic reasons and those who withdrew from the College with a below average academic record, will not be considered for readmission for at least one academic semester. Details may be secured from the Director of Admissions. All readmission applications must be filed not later than August 15 for the fall semester or January 10 for the spring semester.

Admission of Special Students

Graduates of other colleges who wish to complete the requirements for a teacher's certificate may apply for admission as special students. Application forms and information may be secured from the Director of Admissions. Applications and credentials must be filed not later

than August 15 for admission to the fall semester, nor later than January 10 for admission to the spring semester.

Admission of Transfer Students

1. Students who have been enrolled in any institution of collegiate rank, regardless of length of time attended, are classified as transfer students;
2. All transfer students must complete admissions procedures by August 15 for admission to the fall semester, and by January 10 for admission to the spring semester.
3. An applicant must file transfer application forms, obtainable by mail from the Admissions Office, and must have the following sent directly to the Director of Admissions, West Chester State College, West Chester, Pennsylvania:
   a. An official transcript of the applicant's record at each institution attended. To be acceptable, transcripts must show an honorable dismissal;
   b. A letter of recommendation from the Dean of Men (for men) or the Dean of Women (for women) of the last college attended;
   c. Two letters of recommendation from well known persons (not relatives) in the applicant's home community;
   d. A letter, written by the applicant, explaining frankly and fully the reasons for wishing to transfer to West Chester State College;
   e. A deposit of ten dollars ($10.00) which must accompany the application. This is a guarantee of intention to enter the college for the semester designated. It will be credited to the Basic Fee if the applicant enrolls. No review of an application will be made unless the deposit has been received by the Admissions Office.

      THIS DEPOSIT WILL NOT BE REFUNDED for any reason whatsoever;
   f. Transfer students with four or less semesters of college experience, and those with more than four semesters whose scholarship record has not been entirely satisfactory, must file College Board scores for the Scholastic Aptitude Test, English Composition Test, and one other test;
4. Students enrolled in other colleges or universities as freshmen during the fall semester, who apply for admission to West Chester for the spring semester, will be evaluated academically in terms of high school record, College Board test scores, etc., on the same basis as new freshmen applicants;
5. Transfer students who qualifiy may be approved for admission, provided, the classes to which they should be assigned are not filled by students already enrolled in the College;

6. When an application has been completed in the Admissions Office, it will be reviewed and the applicant will be informed concerning (1) the tests and interviews that will be required, or (2) the rejection of the application. If tests and interviews are required, the applicant will be notified concerning the time and place. After fulfilling this requirement, final action will be taken on the application and notice of acceptance or rejection will be sent to the applicant.

Advanced Credit and Resident Credit Requirements

Advanced credit may be granted for equivalent courses in accredited institutions of collegiate grade, but no student may be graduated without earning the last 30 semester hours of credit on the West Chester State College campus.

Courses offered for transfer of credits will not be accepted if the marks for those courses are the lowest passing marks of the institution assigning them. If "D" is the lowest passing mark, courses so marked will not be accepted. If numerical marking is used, courses will be accepted when the grade is 10 or more points above the passing mark.

West Chester State College does not allow credit for courses taken through correspondence.

Pre-Admission Course Credit

Not more than nine (9) semester hours of course work completed at West Chester prior to formal admission to a degree program will be credited toward a degree. In order to obtain degree credit for such pre-admission courses, a minimum grade of "C" must be attained.

POLICY ON EARLY ADMISSIONS

I. Early admissions is interpreted to mean the admission of certain students to college freshman classes after they have completed the **junior** year of high school. It is not a procedure for admitting all juniors who have high academic marks. Other factors, which are indicated below, must be evaluated to determine whether a student is prepared for college work and college life without the benefit of the senior year in high school.
The objective of this Early Admissions policy is to provide an opportunity for high school students with high academic ability, achievement, and personal development to undertake a college program when it is evident they will benefit more from it than from the senior year in high school.

II. Admission Requirements

A. Academic qualifications:

1. Completion of the junior year of an accredited high school;

2. College preparatory course in grades nine, ten, and eleven with five major academic subjects each year;

3. Rank in the upper 5% of the class (ranking to include only academic marks for grades nine, ten, and eleven);

4. College Board Examinations:
SAT — 600 minimum score on each part;
English Composition — 600 minimum score;

5. The chairman of the department to which the applicant desires admission will determine what additional achievement or skill tests will be required and the minimum acceptable achievement on such tests.

B. Recommendations:

1. The high school principal must highly recommend the student for early admission;

2. The guidance counselor of the high school must highly recommend the student for early admission;

3. The high school department head of the subject area in which the student wishes to major in college must highly recommend the student for early admission.

Recommendations are to include specific statements concerning the following:

1. Physical development;

2. Emotional maturity;

3. Social maturity;

4. Personality;

5. Study habits;

6. Motivation.

C. Interviews:

The applicant shall be interviewed by:

1. The Director of Admissions;

2. The Chairman of the department in which the student desires to enroll;

3. The Dean of Men (for boys) or the Dean of Women (for girls).

III. Approval or rejection of an applicant for Early Admission shall be the responsibility of the Director of Admissions after recom-

mendations have been received from the department Chairman and the Dean of Men or the Dean of Women.

IV. Applications shall be made to the Director of Admissions not later than August 1. Instructions and forms will be supplied by him.

EXPENSES

A. FEES*

1. For Students Who Are Legal Residents of Pennsylvania—

A. Fees for each **full-time student are charged EACH SEMESTER as follows:

Curriculum	Basic Fee†	Special Curriculum Fee	Total*
Elementary Education	$125.		$125.
Secondary Education	$125.		$125.
Health and Physical Education	$125.	$18.	$143.
Music Education	$125.	$45.	$170.
Liberal Arts	$150.		$150.

B. Part-time Campus Students and Extension Students (students taking eleven semester hours or less)

(1) Basic Fee—$12.50 per semester hour (minimum basic fee $37.50)

(2) Special Curriculum Fee—same as for full-time students prorated on the basis of eighteen semester hours.

C. The President of the College may, at his discretion, authorize payments for not less than one month in advance by worthy students who are in full-time attendance.

---

*FEES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

**The acceptance of a student is for a semester. Parents or guardians who are providing for the expenses of a student should understand that their financial obligations are for a full semester.

†This fee covers registration and keeping of records of students, library, student welfare, health service (other than extra nurse and quarantine), and laboratory facilities.

2. For Students Other Than Legal Residents of Pennsylvania

A. Full-time Students

(1) $20 per credit hour (averages $320 for regular 16 credit hour load) plus special curricular fees.

(2) Special Curriculum Fee

(a) Health and Physical Education—
$18 per semester

(b) Music Education—$45 per semester

(c) Liberal Arts—$25 per semester

B. Part-time Campus Students, Off-Campus Extension Students, and Summer Session Students—

(1) Basic Fee—$20 per semester hour (minimum basic fee $60)

(2) Special Curriculum Fee—same as for full-time students prorated on the basis of eighteen semester hours.

3. Housing Fee

A. Housing rate for students.

The housing rate for students is $306 per semester.

This includes room and meals, during the time the College is officially in session (excludes holidays and recesses).

Students must vacate dormitory rooms on the day college recesses begin. Rooms may be occupied after 2:00 P.M. on the day preceding the end of a college recess.

(1) Official recesses to which this regulation applies are:

(a) Thanksgiving—from close of classes to 8:00 A.M. on the day classes resume;

(b) Christmas—from close of classes to 8:00 A.M. on the day classes resume;

(c) Between semesters—semesters end for freshmen, sophomores, juniors, non-graduating seniors, and special students immediately after their last final examination or student teaching assignment and the recess extends to 8:00 A.M. of the day students are scheduled to register for the next semester;

(d) Spring Vacation—from close of classes to 8:00 A.M. on the day classes resume;

(e) Easter—from close of classes to 8:00 A.M. on the day classes resume;

(f) Other official holidays (recesses) to which this regulation applies may be designated by the College Administration.

(2) An additional charge of $9 per student will be made each semester for rooms with running water.

(3) In the Summer Sessions only, a student may occupy a double room alone by paying an additional $2 per week. A special charge also applies during the academic year if room is available.

(4) For the purpose of meeting the requirements of those college students who live in off-campus private rooming houses but board in the college dining room, the rate will be divided $8 for room and $9 for table board. Room rent is paid to the private householders and not to the College.

(5) No reduction in the rates is to be made for the absence of students for less than two weeks.

B. Housing rates for employees other than those included in the State Classification Schedule (faculty, clerks, etc.) are $18 per week, divided $9 for meals and $9 for room.

The rate for separate meals is:
Breakfast $.60 Lunch $.85 Dinner $1.25
Transient lodging fee is $1.50 per night per person, plus tax.

D. The President of the College may, at his discretion, authorize payments for not less than one month in advance by worthy students.

4. Damage Fee

Students will be responsible for damages, breakage, loss, or delayed return of college property. The rooms are fully equipped for students at entrance. Any damage done to furniture, furnishings or buildings, beyond that which comes from use, will be charged to students. At the opening of the year all necessary electric light bulbs are furnished free. Thereafter, students pay for extra light bulbs. If damage results from using appliances other than those provided by the College, a proportionate amount will be charged to all students accountable.

5. Private Music Instruction Fees

A. Students enrolled in the Music Education Curriculum do not pay extra fees for private instruction in voice, piano, band, or orchestral instruments that are required in the curriculum. Such instruction is included in the basic fee. There is no charge for the use of pianos for practice. A rental charge is made for the following:

(1) Pipe organ for practice one period per day, $36 each semester.

(2) Orchestral instruments, $6 per semester.

B. Charges applicable to students in the Elementary, Secondary, or Health and Physical Education Curriculum.

(1) Voice, piano, organ, band, or orchestral instruments, $24 each semester—for one half-hour lesson per week—plus $37.50 out-of-music curriculum fee.

(2) Rental of piano for practice, one period each day, $6 each semester.
Rental of pipe organ for practice, one period each day, $36 each semester.
Rental of band or orchestral instruments, $6 each semester.

6. Miscellaneous Fees

A. Diploma Fee
A fee of $5 must be paid by each candidate for a degree to cover the cost of the diploma.

B. Record Transcript Fee
One dollar will be charged for the second and each subsequent transcript of records.

C. Late Registration Fee and Late Payments
A late registration fee of $1 per day, not to exceed $5, will be paid by students who do not register on the appointed registration day. The same regulations shall apply to approved inter-semester payments.

7. Delinquent Accounts

No student will be enrolled, graduated, or receive a transcript of his record until all charges have been paid.

B. DEPOSITS

Application Fees For New Students

An application fee of ten dollars $10.00 must be sent by all applicants with their application. **This fee is not refundable for any reason whatsoever.**

When a student has been approved for admission, he accepts the offer by sending an additional fifteen dollars ($15.00). This is a guarantee of his intention to enter the College for the term or semester designated **and is not refundable.**

When a student enrolls at the College, he receives credit for the sum of the application fees ($25.00) toward his Basic Fee. If a student does not enroll, he forfeits the entire amount.

Check or money order (not cash) for these deposits must be made payable to the **Commonwealth of Pennsylvania.**

Advance Registration Fee For Upperclassmen

Upon notice by the Business Office, upperclassmen are required to pay an advance registration fee as a guarantee of their intention to return to College. If this fee is not paid within the stipulated time limit, the student is dropped from the rolls of the College and loses all privileges and priorities that were due him.

If, after paying the advance fee, the student withdraws from the College or does not enroll for the semester or term designated, he forfeits the entire fee.

Check or money order must be made payable to the **Commonwealth of Pennsylvania.**

C. ADDITIONAL COSTS

1. Compulsory Accident Insurance

$7.50 per year

2. Student Activity Fee

A student activity fee will be collected from all students (except those noted below) and administered under regulations approved by the Board of Trustees through a cooperative organization. This fee will cover the cost of student activities in athletics, lectures, entertainments, student publications, et cetera.

Students taking extension courses or regular session students taking less than twelve semester hours may secure the benefits of the activities program by the payment of the student activity fee. This fee, as determined and collected by the Student Activities Association of the West Chester State College is $17.50 each semester.

3. Books

Each student purchases his own books and supplies. These may be bought at the College Book Store. The cost is approximately $40 each semester.

4. Gymnasium Outfits

A. Health and Physical Education Students

(1) All Health and Physical Education men students are required to purchase athletic and gym outfits costing approximately fifteen dollars ($15) the first semester, fifteen dollars ($15) the third semester, and twenty dollars ($20) in the student teaching semester.

(2) Health and Physical Education women students are required to purchase gym outfits costing approximately forty-five dollars ($45). This expenditure occurs at the beginning of the first semester.

B. Elementary, Secondary, Music, and Liberal Arts Students

In the first semester of the freshmen year all students other than those registered in the field of Health and Physical Education are required to purchase a regulation gym outfit. For the women students this outfit will include a pair of blue shorts, a white shirt, a white sweat shirt, white socks, and canvas tennis shoes. This regulation outfit may be purchased in the stores of West Chester at an approximate cost of ten dollars ($10).

For the men students this regulation outfit includes a pair of white shorts, a white T-shirt, white socks, canvas gym shoes, gray sweat

pants, and gray sweat shirt. The approximate cost of this gym outfit is fifteen dollars ($15).

5. Identification Cards

A charge not exceeding one dollar ($1.00) will be made for Student Identification Cards on the day of registration. Identification cards are used to admit students to college functions sponsored by the Student Activities Association and to the College dining room. Identification cards show each student's photograph, home address, IBM number, and class. Lost identification cards will be replaced at a cost of two dollars and fifty cents ($2.50).

6. Dues

Each student will pay either a Day Student or Dormitory Council fee of nominal amount, which currently is two dollars ($2.00) per year for women and one dollar ($1.00) per year for men.

7. Class Dues

Class dues constitute an obligation which every student assumes upon admission to the College and **must be paid at the time of registration.** Class dues are determined by each class. For the current year the dues are as follows: Freshmen—$1; Sophomores—$4; Juniors—$15; Seniors—$20.

D. REPAYMENTS

1. Repayments will be made:

In case of personal illness, the same being certified by an attending physician, or for such other reason as may be approved by the Board of Trustees, the amount of the housing and basic fees paid by the student for the part of the semester which the student does not spend in college will be refunded.

2. Repayments will not be made:

A. To students who are temporarily suspended, indefinitely suspended, dismissed, or who voluntarily withdraw from the College.

B. Of the application fees for any reason whatsoever.

E. DATE OF PAYMENTS

1963 - 1964

The College sends out bills for board and room and the basic and special curriculum fees each semester. This divides the payments per year into two units. If special arrangements other than these are desired, the student should consult the Business Manager of the College.

Checks for the basic and special curriculum fees and for board and room should be made payable to the COMMONWEALTH OF PENNSYLVANIA, and mailed to the College Business Office.

Checks for the STUDENT ACTIVITY FEE should be made payable to the Student Activities Association at West Chester, Pa., at the beginning of each semester. This fee shall be paid upon receipt of bill.

Late payment fees apply after the following dates: 1963-64

First semester, 1963-64	September 4, 1963
Second semester, 1963-64	January 20, 1964
Pre-Session, 1964	June 8, 1964
Regular Summer Session, 1964	June 29, 1964
Post-Session, 1964	August 10, 1964

SUMMARY OF COSTS PER YEAR* FOR RESIDENTS OF PENNSYLVANIA

1. Elementary or Secondary Education Curriculum

a. Boarding at the College

Basic Fee	$250.00
Activity Fee	35.00
Books (approximately)	80.00
Room and board	612.00
	$977.00**

b. Day Students—Living at Home

Basic Fee	$250.00
Activity Fee	35.00
Books (approximately)	80.00
	$365.00**

2. Health and Physical Education Curriculum:

a. Boarding at the College

Basic and Special Curriculum Fees	$286.00
Activity Fee	35.00
Books (approximately)	80.00
Room and board	612.00
	$1013.00**

*Fees are subject to change without notice. Out-of-state students will be charged a basic and tuition charge of $20 per credit hour (averages $640 for regular 32 credit hour load) plus special curricular fees.

**Cost of gymnasium outfits and class dues must be added to this total.

b. Day Students—Living at Home

Basic and Special Curriculum Fees	$286.00
Activity Fee	35.00
Books (approximately)	80.00
	$401.00*

3. Music Education Curriculum:

a. Boarding at the College

Basic and Special Curriculum Fees	$340.00
Activity Fee	35.00
Books (approximately)	80.00
Room and board	612.00
	$1067.00*

b. Day Students—Living at Home

Basic and Special Curriculum Fees	$340.00
Activity Fee	35.00
Books (approximately)	80.00
	$455.00*

4. Liberal Arts Curriculum

a. Boarding at the College

Basic Fee	$300.00
Activity Fee	35.00
Books (approximately)	80.00
Room and Board	612.00
	$1027.00*

b. Day Students—Living at Home

Basic Fee	$300.00
Activity Fee	35.00
Books (approximately)	80.00
	$415.00*

*Cost of gymnasium outfits and class dues must be added to this total.

Curricula

CURRICULA OFFERED AT WEST CHESTER

1. Elementary Education Curriculum
2. Secondary Education Curriculum
3. Health and Physical Education Curriculum
4. Music Education Curriculum
5. Degree Curriculum for Dental Hygienists
6. Degree Curriculum for Public School Nurses
7. Liberal Arts Curricula.

THE ELEMENTARY CURRICULUM

Upon satisfactory completion of the requirements of this curriculum the student will be granted the degree of Bachelor of Science in Education by the College and will qualify for a Pennsylvania Provisional College Certificate to be issued by the Department of Public Instruction, Harrisburg, Pa. This certificate will be valid for teaching for three years in the kindergarten and grades one to six inclusive, and for grades seven and eight when they are not a part of an approved junior high school or junior-senior high school in Pennsylvania.

(Sequence of courses subject to change for administrative reasons)

			Hours	
		FIRST SEMESTER	Clock	Semester
Eng	101	*Speech	2	2
Eng	103	*English I	3	3
Sci	100	Biological Science	3	3
Edu	100	Social Foundations of Education	3	3
Geo	101	*World Geography	3	3
HEd	101	*Physical Education	2	1
			16	15
		SECOND SEMESTER		
Eng	102	*English II	3	3
Mus	220	*Fine Arts	3	3
Art	101	Fine Arts	3	3
Mat	101	*Introduction to College Mathematics.	3	3
Sci	150	*Physical Science	3	3
HEd	150	*Health	2	2
			17	17
		THIRD SEMESTER		
His	101	*History of Civilization I	3	3
Eng	221	*Literature I	3	3
Psy	250	*General Psychology	3	3
Sci	250	*Science for the Elementary Grades..	3	3
		Elective (in Science)	5	3
HEd	201	*Physical Education	2	1
			19	16

*Required course in General Education.

**Courses so marked cover content materials, and specialized methods pertaining to the subject area involved.

		FOURTH SEMESTER	Hours Clock	Semester
His	102	*History of Civilization	3	3
Eng	222	*Literature II	3	3
Art	202	**Art for the Elementary Grades	3	3
Mus	251	**Music for the Primary Grades, or		
or Mus	252	** Music for the Intermediate Grades	3	3
HEd	202	*Physical Education	2	1
Eng	353	*Speech Problems	3	3
			17	16
		FIFTH SEMESTER		
Edu	350	Educational Psychology	3	3
Edu	309	**Language Arts	6	6
Eng	350	** Children's Literature	3	3
HEd	350	**Health for the Elementary Grades	3	2
		Elective	3	3
			18	17
		SIXTH SEMESTER		
His	211	*History of the United States and Pennsylvania I	3	3
Psy	351	*Human Development (Childhood)	3	3
Mat	351	**Arithmetic for Elementary Grades	3	3
Edu	320	**Social Studies and Geography	3	3
Edu	300	Audio-Visual Education	3	2
		Elective	2	2
			17	16
		SEVENTH SEMESTER		
Edu	451	Tests and Measurements in Guidance	3	3
Phi	480	*Introduction to Philosophy	3	3
PSc	231	*American Government	3	3
Edu	401	Problems of Elementary Education	3	3
		Elective	2	2
		Elective	3	3
			17	17
		EIGHTH SEMESTER		
Edu	411	Student Teaching and Direction of Student Activities	30	12
Edu	413	Practicum and School Law	2	2
			32	14
		Total Semester Hours Required for Graduation		128

*Required course in General Education.

**Courses so marked cover content materials, and specialized methods pertaining to the subject area involved.

LABORATORY SCHOOL

SPECIALIZATION AND ELECTIVES

Students may specialize in Early Childhood, in Intermediate Grade, or in Upper Grade teaching by selecting appropriate electives. A minimum of six semester hours in any of the three areas shall constitute specialization in that area. Students wishing to be certified in Special Education may do so by taking a minimum of 13 semester credits in that area of specialization.

ELECTIVES:			Hours Clock	Semester
Art	201	Arts and Crafts	3	3
Art	301	Problems in Art Education	3	3
Art	302	Creative Art	3	3
Art	303	Creative Design	3	3
Edu	301	Pre-School Education	3	3
Edu	303	Creativity in the Classroom	3	3
Edu	307	Diagnostic and Remedial Reading	3	3
Edu	310	School and Community	3	3
Edu	330	Teaching the Exceptional Child	3	3
Edu	353	Child Adjustment	3	3
Psy	370	Mental Hygiene	3	3
Phi	380	Ethics	3	3
Mus	100	Foundations of Music	3	3
Mus	401	Piano Class (Elementary)	3	3
Mus	403	Teaching Music Appreciation in the Elementary Schools	3	3

Students may also elect courses in academic fields and special curricula. Permission and guidance must be secured from department chairmen of those fields.

ELEMENTARY SCHOOL SCIENCE

Although there is, at present, no field of specialization in Elementary School Science, each student in the Elementary Education Curriculum is required to elect at least one course in the Science Department.

RECOMMENDED:			Hours Clock	Semester
Sci	251	Matter & Energy	3	3
Sci	252	Earth Science	3	3
Bio	111	Botany I	6	4
Bio	112	Botany II	6	4
Bio	141	Zoology I	6	4
Bio	142	Zoology II	6	4
Bio	210	Field Botany	5	3
Bio	241	Field Zoology	5	3
Bio	242	Ornithology	5	3
Biol	301E	Basic Genetics	5	3
Bio	302	Ecology	5	3
Bio	341	Entomology	5	3
Bio	355	Conservation of Plant and Animal Resources	5	3

PROGRAM OF STUDIES IN SPECIAL EDUCATION

Beginning in January, 1961, West Chester State College expanded its curricular offerings to include certification in the teaching of the Mentally Retarded and the Physically Handicapped. These programs should be regarded as extensions of existing certification curricula rather than self-sufficient courses. The student interested in special education will be graduated with dual certification, i.e., regular elementary and retarded, or health and physical education and physically handicapped, or other similar combinations.

The certification requirements of the Department of Public Instruction specify "six semester hours of courses in the area of the psychology of exceptional children" and "six semester hours of specialized preparation in curriculum and methodology . . . including arts and crafts, music and audio-visual aids." Within this framework a program has been planned totaling thirteen semester hours in each field in such manner that it will not be necessary for the student to carry an overload or to attend a summer session. It is contemplated that ultimately a summer program will be offered but certification should be possible without summer study if desired.

The planned program of study in each area is as follows:

Mentally Retarded	Sem. Hrs.	Physically Handicapped
Psychology of Exceptional Children	3	Psychology of Exceptional Children
Psychology of the Mentally Retarded	3	Psychology of the Physically Handicapped
Curriculum Materials and Methods for Mentally Retarded	3	Curriculum and Methods for Physically Handicapped
Arts and Crafts for Atypical Children	2	Arts and Crafts for Atypical Children
Problems in Special Education	2	Orthopedic Disabilities of Childhood
	Total 13 s.h.	

Student Teaching: In each program not less than four weeks nor more than nine weeks of the regular student teaching to be allocated to a special education station.

The courses in the Psychology of Exceptional Children and Arts and Crafts for Atypical Children are basic and will be taken by students in either field. **They are being offered in the Spring Semester of the present academic year.**

All interested students should apply immediately to the Admissions Office, Room 106 Anderson Hall, for further details.

THE SECONDARY CURRICULUM

Upon satisfactory completion of the requirements of this curriculum, the student will be granted the degree of Bachelor of Science in Education by the College and will qualify for a Pennsylvania Provisional College Certificate to be issued by the Department of Public Instruction, Harrisburg, Pa. This certificate will be valid for teaching specific subjects in an approved secondary school in Pennsylvania for three years. Students are required to choose one area of specialization. These areas are indicated on the following pages.

(Sequence of courses subject to change for administrative reasons)

		FIRST SEMESTER	Hours Clock	Hours Semester
Eng	101	*English I	3	3
Eng	103	*Speech	2	2
Sci	100	Biological Science	3	3
Geo	101	*World Geography	3	3
HEd	104	*Physical Education	2	1
		Elective	3	3
			17	15

SECOND SEMESTER

Eng	102	*English II	3	3
Sci	150	Physical Science	3	3
Edu	100	Social Foundations of Education	3	3
Mat	101	*Introduction to College Mathematics.	3	3
HEd	204	*Physical Education	2	1
		Elective	3	3
			18	16

THIRD SEMESTER

His	101	*History of Civilization I	3	3
Eng	221	*Literature I	3	3
Art	101	*Fine Arts	3	3
HEd	150	*Health	2	2
		Elective	6	6
			17	17

*Required course in General Education.

		FOURTH SEMESTER	Hours Clock	Hours Semester
His	102	*History of Civilization II	3	3
Eng	222	*Literature II	3	3
Mus	220	*Fine Arts	3	3
HEd	205	*Physical Education	2	1
Psy	250	*General Psychology	3	3
		Electives	3	3
			17	16
		FIFTH SEMESTER		
His	212	*History of the United States and Pennsylvania II	3	3
Edu	350	Educational Psychology	3	3
Psy	352	Human Development (Adolescence)	3	3
Edu	320	Teaching of Reading in Secondary School Academic Subjects	2	2
		Electives	7	7
			18	18
		SIXTH SEMESTER		
Edu	300	Audio-Visual Education	3	2
Edu	302	Problems of Secondary Education Including Guidance	3	3
Edu	451	Tests and Measurements in Guidance	3	3
		Electives	9	9
			18	17
		SEVENTH SEMESTER		
Phi	480	*Introduction to Philosophy	3	3
PSc	231	*American Government	3	3
		Electives	9	9
			15	15
		EIGHTH SEMESTER		
Edu	412	Student Teaching and Direction of Student Activities	30	12
Edu	414	Professional Practicum and School Law	2	2
			32	14
		Total Semester Hours Required for Graduation		128

*Required course in General Education.

Specialization in **one** of the teaching fields listed below is required for graduation in Secondary Education. For a particular field, fulfillment of the requirement listed will satisfy the teacher certification requirements in Pennsylvania.

Students who wish to be certified to teach in a second field must meet the minimum requirement for certification which is shown in the second column.

If the first field choice is English, Comprehensive Science, or Social Studies, in order to meet the requirement for certification in a second field, attendance will be required at one or more summer sessions during the four-year college program, usually after the sophomore and/or junior years.

The minimum semester hour requirement for each of the fields of specialization is as follows:

	First Field	Second Field
Biology	30	24
Chemistry	30	24
Comprehensive Science	40	—
Earth and Space Science	30	24
English	36	—
French	30	24
General Science	30	24
Geography	30	24
German	30	24
Latin	30	24
Mathematics	36	24
Physics	30	24
Russian	—	24
Social Science	45	—
Spanish	30	24

AREAS OF SPECIALIZATION

English

(First field 36 Semester Hours; no second field.)

REQUIRED—		Hours Clock	Hours Semester
Eng 101	Composition	3	3
Eng 102	Composition	3	3
Eng 103	Speech	3	3
Eng 221	Literature I	3	3
Eng 316	Teaching English in Secondary Schools	3	3

RESTRICTED ELECTIVES—

At least one course must be selected from each of Groups, 1, 2, 3, and 4.

		Hours Clock	Hours Semester
Group 1	COMPOSITION COURSES		
Eng 211	Journalism	3	3
Eng 312	Advanced Composition	3	3
Eng 313	Creative Writing	3	3
Eng 314	History of Language	3	3
Eng 315	Advanced Grammar	3	3
Group 2	SURVEY COURSES		
Eng 223	American Literature I	3	3
Eng 224	American Literature II	3	3
Eng 225	English Literature I	3	3
Eng 226	English Literature II	3	3
Eng 327	American Poetry	3	3
Eng 328	American Prose	3	3
Eng 329	Classical Mythology	1	1
Group 3	PERIOD COURSES		
Eng 330	Medieval Literature in England	3	3
Eng 331	Chaucer	3	3
Eng 332	English Drama to the Renaissance	3	3
Eng 333	Shakespeare I	3	3
Eng 334	Shakespeare II	3	3
Eng 335	Eighteenth Century Literature	3	3
Eng 336	The Romantic Movement	3	3
Eng 337	Victorian Prose	3	3
Eng 338	Victorian Poetry	3	3
Eng 339	Tudor Literature	3	3
Eng 340	Stuart Literature	3	3

		Hours Clock	Semester
Group 4	LITERARY FORM COURSES		
Eng 341	Novel to 1870	3	3
Eng 342	Contemporary Novel	3	3
Eng 343	Contemporary Poetry	3	3
Eng 344	Modern Drama	3	3
Eng 345	Criticism	3	3
Eng 346	Essay	3	3
Eng 347	Literature of Biography	3	3
Eng 348	Short Story	3	3
Eng 349	Bible as Literature	3	3
Group 5	ENGLISH FREE ELECTIVES		
(These courses do not carry credit toward the basic 36 hours required for a field in English but may be used as supplemental credits.)			
Eng 350	Children's Literature	3	3
Eng 351	Creative Literature for Elementary Grades	3	3
Eng 352	Dramatics in the Elementary Grades	3	3
Eng 353	Speech Problems	3	3
Eng 354	Choral Speaking	3	3
Eng 355	Principles of Directing	3	3

French

(First field 30 Semester Hours; Second field 24 Semester Hours)

REQUIRED—			
Fre 101	Elementary French I	3	3
Fre 102	Elementary French II	3	3
Fre 103	Intermediate French I	3	3
Fre 104	Intermediate French II	3	3
ELECTIVES—			
Fre 201	Survey of Literature I	3	3
Fre 202	Survey of Literature II	3	3
Fre 301	Advanced Language and Techniques	3	3
Fr. 302	Advanced Oral French	3	3
Fre 401	*French Literature of the 18th Century.	3	3
Fre 402	*French Literature of the 19th Century.	3	3
Fre 403	*Contemporary French Literature	3	3
Fre 404	*French Classical Drama	3	3

*French 401 and 402 will alternate with French 403 and 404. French 403 and 404 will not be given in 1963-64.

ENGLISH FREE ELECTIVES

ThA 201	Principles of Acting	3	3
ThA 202	The Art of Play Production	3	3
ThA 203	Principles of Stagecraft, Lighting, and Sound	3	3
ThA 303	History of the Drama and Theater, I	3	3
ThA 304	History of the Drama and Theater, II	3	3

Spanish

(First field 30 Semester Hours, Second field 24 Semester Hours)

		Hours	
REQUIRED—		Clock	Semester
Spa 101	Elementary Spanish I	3	3
Spa 102	Elementary Spanish II	3	3
Spa 103	Intermediate Spanish I	3	3
Spa 104	Intermediate Spanish II	3	3
ELECTIVES—			
Spa 201	Survey of Literature (Golden Age)	3	3
Spa 202	Survey of Literature (since 1800)	3	3
Spa 301	Advanced Language and Techniques	3	3
Spa 302	Advanced Oral Spanish	3	3
Spa 401	Spanish-American Literature	3	3
Spa 402	Contemporary Spanish Literature	3	3

German

(First field 30 Semester Hours; Second field 24 Semester Hours)

REQUIRED—			
Ger 101	Elementary German I	3	3
Ger 102	Elementary German II	3	3
Ger 103	Intermediate German I	3	3
Ger 104	Intermediate German II	3	3
ELECTIVES—			
Ger 201	Advanced Readings in German Literature	3	3
Ger 202	Goethe	3	3
Ger 301	Advanced Language and Techniques	3	3
Ger 302	Advanced Oral German	3	3
Ger 401	German Literature of the Classical Period	3	3
Ger 402	Contemporary German Literature	3	3

Latin

(First field 30 semester hours; second field 24 semester houds)

		Hours Clock	Semester
REQUIRED—			
Lat 101	Beginning Latin I	3	3
Lat 102	Beginning Latin II	3	3
Lat 201	Cicero	3	3
Lat 202	Virgil	3	3
ELECTIVES—			
Lat 301	Roman Historians	3	3
Lat 302	The Lyric Poets	3	3
Lat 303	Latin Prose Composition	3	3
Lat 304	The Elegiac Poets	3	3
Lat 401	Roman Drama	3	3
Lat 402	Roman Philosophy	3	3
Lat 403	Roman Satire	3	3
Lat 404	The Latin Novel	3	3
Lat 405	Tutorial Course	3	3

GREEK

(No first field offered in Greek)

ELECTIVES—			
Gre 101	Beginning Greek I	3	3
Gre 102	Beginning Greek II	3	3
Gre 103	Intermediate Greek I	3	3
Gre 104	Intermediate Greek II	3	3

Russian

(No first field offered in Russian; second field, 24 semester hours)

		Hours Clock	Semester
ELECTIVES—			
Rus 101	Beginning Russian I	3	3
Rus 102	Beginning Russian II	3	3
Rus 103	Intermediate Russian I	3	3
Rus 104	Intermediate Russian II	3	3

Geography

(First field 30 Semester Hours; Second field 24 Semester Hours)

REQUIRED—

Geo 101	World Geography	3	3
Geo 202	Geography of the U. S. and Canada	3	3
Geo 203	Economic Geography	3	3
Geo 205	Physiography	3	3
Geo 307	Geography of the U. S. S. R. (Including Satellite Countries)	3	3
Geo 311	*Teaching Geography in Secondary Schools	3	3

RESTRICTED ELECTIVES—

At least one course must be chosen from each of Groups 1, 2, and 3.

Group 1. EARTH STUDIES

Geo 206	Meteorology	3	3
Geo 301	Geology	3	3
Geo 302	Climatology	3	3
Geo 303	Cartography	3	3

Group 2. ECONOMIC STUDIES

Geo 201	Conservation of Natural Resources	3	3
Geo 209	The U.S. in its Global Relations	3	3
Geo 210	Geographic Influence in American History	3	3
Geo 308	Trade and Transportation	3	3
Geo 309	World Problems	3	3

Group 3. REGIONAL STUDIES

Geo 102	Geography of the U. S. and Pennsylvania	3	3
Geo 204	Geography of Pennsylvania	3	3
Geo 207	Geography of Europe	3	3
Geo 208	Geography of Latin America	3	3
Geo 304	Geography of Asia	3	3
Geo 305	Geography of the Far East	3	3
Geo 306	Geography of Africa	3	3
Geo 312	Geography of Australia and Associated Islands	3	3
Geo 310	Field Courses (as approved)	3	3

*Required for a first field; may not be used to satisfy the minimum requirements for a second field.

MATHEMATICS

(First field 36 Semester Hours; Second field 24 Semester Hours)

Students demonstrating competence to specialize in Mathematics will not be required to take Math. 101: **Introduction to College Mathematics.**

REQUIRED—		Hours Clock	Hours Semester
Mat 105	College Algebra and Trigonometry ...	3	3
Mat 131	Analytic Geometry	3	3
Mat 241	Differential Calculus	3	3
Mat 242	Integral Calculus	3	3
Mat 341	Intermediate Calculus	3	3
*Mat 343	Differential Equations	3	3
*Mat 350	Teaching of Mathematics in Secondary Schools	3	3
Mat 403	Mathematical Statistics	3	3
Mat 411	Modern Algebra I	3	3
Mat 431	Modern Geometry	3	3
ELECTIVES—			
Mat 211	Advanced Algebra	3	3
Mat 331	College Geometry	3	3
Mat 401	History of Mathematics	3	3
Mat 405	Special Topics in Mathematics	3	3
Mat 412	Modern Algebra II	3	3
Mat 432	Topology	3	3
Mat 441	Advanced Calculus I	3	3
Mat 442	Advanced Calculus II	3	3

*Not required for a second field.

SCIENCE

Comprehensive Science

(First field 40 Semester Hours; no second field.)

A student may qualify for the **Comprehensive Science Certificate** by completing a minimum of forty (40) semester hours with not less than eight (8) semester hours in **each** of the following: biology, chemistry, and physics; **and** not less than (6) semester hours in earth sciences (astronomy, geology, and meteorology); **and** not less than three (3) semester hours in mathematics.

General Science

(First Field 30 hours; Second Field 24 hours)

Certification to teach General Science is valid for teaching General Science in all grades up to and including the ninth grade.

A student may be certified to teach General Science on the completion of twenty-four (24) semester hours in any two or all of the sciences;

Basic Biology (Sci. 100) and Basic Physical Science (Sci. 150) are not required of students with specialization in General Science. Supporting electives recommended as listed under Biology, Chemistry, Geography (Earth Sciences), Mathematics, and Physics.

REQUIRED—		Hours Clock	Semester
Bio 111	Botany I	6	4
or			
Bio 112	Botany II	6	4
Che 121	Inorganic Chemistry I	6	4
Che 122	Inorganic Chemistry II	6	4
Bio 141	Zoology I	6	4
or			
Bio 142	Zoology II	6	4
Phy 131	Physics I	6	4
Phy 132	Physics II	6	4
Geo 206	Meteorology	3	3
Sci 350	*Teaching Science in Secondary Schools	3	3

Biology

(First field 30 Semester Hours; Second field 24 Semester Hours)

Basic Biology (Sci. 100) is not required when a field of specialization is Biology.

REQUIRED—

Bio 111	Botany I	6	4
Bio 112	Botany II	6	4
Bio 141	Zoology I	6	4
Bio 142	Zoology II	6	4
Sci 350	*Teaching Science in the Secondary School	3	3
Bio 450	Biology Seminar	1	1

*Required for a first field; may not be used to satisfy the minimum requirements for a second field.

		Hours Clock	Semester

RESTRICTED ELECTIVES (apply only to first teaching field)

At least one course must be selected from each group.

Group 1. FIELD COURSES

Bio 210	Field Botany	5	3
Bio 241	Field Zoology	5	3
Bio 242	Ornithology	5	3
Bio 302	Ecology	5	3
Bio 341	Entomology	5	3
Bio 355	Wildlife Conservation	5	3

Group 2. LABORATORY COURSES

Bio 301	Genetics	5	3
Bio 310	Microbiology	5	3
Bio 342	Parasitology	5	3
Bio 343	Mammalian Anatomy	5	3
Bio 344	Basic Physiology	5	3
Bio 345	Plant Physiology	5	3
Bio 351	Embryology	5	3
Bio 401	Histology	5	3
Bio 402	Cytology	5	3
Bio 410	Plant Taxonomy	5	3
Bio 452	Special Problems in Biology		1-3

Chemistry

(First field 30 Semester Hours; Second field 24 Semester Hours)

Basic Physical Science (Sci. 150) is not required when a field of specialization is Chemistry. Students who elect Chemistry as a first field must take Physics I and II.

Students who elect Chemistry as a first field and Physics as a second field may count the hours in Physics I and II towards both fields. Biological Science is required of all Secondary Education students.

REQUIRED for First Field

Che 121	Inorganic Chemistry I	6	4
Che 122	Inorganic Chemistry II	6	4
Che 221	Qualitative Analysis	8	5
Che 222	Quantitative Analysis	8	5
Phy 131	*Physics I	6	4
Phy 132	*Physics II	6	4
Che 321	*Organic Chemistry I	8	4
Che 322	*Organic Chemistry II	8	4
Sci 350	Teaching Science in the Secondary School	3	3

*Not required for second field. May be elected.

		Hours	
ELECTIVES—		Clock	Semester
Che 123	Inorganic Chemistry III	6	4
Che 325	Physical Chemistry I	6	3
Che 326	Physical Chemistry II	6	3

Earth and Space Science

(First field 30 Semester Hours; Second field 24 Semester Hours.)

Basic Physical Science (Sci. 150) is not required when a field of specialization is Earth and Space Science.

REQUIRED—			
Che 121	Inorganic Chemistry I	6	4
Che 122	Inorganic Chemistry II	6	4
Phy 131	Physics I	6	4
Phy 132	Physics II	6	4
Phy 330	General Astronomy	3	3
Geo 205	Physiography	3	3
Geo 206	Meteorology	3	3
Geo 301	Geology	3	3
Sci 350	*Teaching Science in the Secondary School	3	3

ELECTIVES—

To be selected from Chemistry, Physics, or **Earth Science.

Physics

(First field 30 Semester Hours; Second field 24 Semester Hours

Students who elect Physics as a first field and Chemistry as a second field may count the hours in Inorganic Chemistry I and II towards both fields.

Basic Physical Science (Sci. 150) is not required when a field of specialization is Physics.

Mat 241 and 242 are required for specialization in Physics.

REQUIRED—			
Che 121	Inorganic Chemistry I	6	4
Che 122	Inorganic Chemistry II	6	4
Phy 131	Physics I	6	4
Phy 132	Physics II	6	4
Phy 231	Mechanics	6	4
Phy 331	Electricity and Magnetism	6	4
Phy 431	Modern Physics	5	3
Phy 431	Atomic Physics	5	3
Sci 350	*Teaching Science in the Secondary School	3	3
ELECTIVES—			
Phy 330	General Astronomy	3	3
Phy 332	Electronics	6	4
Phy 333	Optics	6	4

*Required for a first field; may not be used to satisfy the minimum requirements for a second field.

**To be selected from Geography, Group 1.

SOCIAL SCIENCE

(First field 45 Semester Hours; No second field)

		Hours Clock	Hours Semester
REQUIRED—			
His 101	History of Civilization I	3	3
His 102	History of Civilization II	3	3
His 211	History of the United States and Pennsylvania I	3	3
His 212	History of the United States and Pennsylvania II	3	3
PSc 231	American Government	3	3
Eco 231	Principles of Economics	3	3
Soc 231	Principles of Sociology	3	3
SSc 331	Teaching Social Studies in Secondary Schools	3	3
Geo 202	Geography of the United States and Canada	3	3
Geo 203	Economic Geography	3	3

RESTRICTED ELECTIVES—

At least one course must be selected from each of Groups, 1, 2, 3, 4, and 5.

Group 1.	UNITED STATES HISTORY		
His 313	History of Pennsylvania	3	3
His 314	Diplomatic History of the United States	3	3
His 315	Economic History of the United States	3	3
His 316	History of the American Frontier	3	3
His 317	History of American Science and Technology	3	3
His. 318	Constitutional History of the United States	3	3
Group 2.	EUROPEAN HISTORY		
His 218	Medieval Europe	3	3
His 220	Renaissance and Reformation	3	3
His 221	Modern Europe to 1815	3	3
His 222	Modern Europe since 1815	3	3
His 321	History of England	3	3
His 326	History of Russia	3	3
Group 3.	REGIONAL HISTORY		
His 218	Ancient World	3	3
His 322	History of the Far East	3	3
His 323	History of the Middle East	3	3
His 324	History of Latin America	3	3
His 325	History of Twentieth Century World	3	3

Group 4. SOCIAL SCIENCE

Ant 231	Introduction to Cultural Anthropology.	3	3
Ant 331	Human Evolution	3	3
Ant 332	Social Organization	3	3
Ant 333	Cultural Dynamics	3	3
Ant 334	World Ethnography	3	3
Eco 332	Contemporary Economic Problems	3	3
Eco 333	Consumer Economics	3	3
Eco 334	Industrial Relations	3	3
Eco 335	Money and Banking	3	3
Eco 336	Business and Government	3	3
Eco 337	Economic Growth and Development	3	3
Eco 338	International Economics	3	3
PSc 331	State and Local Government	3	3
PSc 332	Comparative Government	3	3
PSc 333	International Relations	3	3
PSc 334	American Political Parties	3	3
PSc 335	Soviet Government and Politics	3	3
PSc 336	American Political Ideals	3	3
Soc 332	Contemporary Social Problems	3	3
Soc 333	The Family	3	3
Soc 334	Juvenile Delinquency	3	3
Soc 335	Racial and Cultural Minorities	3	3
Soc 336	Urban Sociology	3	3

Group 5. GEOGRAPHY

Geo 201	Conservation of Natural Resources	3	3
Geo 207	Geography of Europe	3	3
Geo 208	Geography of Latin America	3	3
Geo 209	The United States in its Global Relationships	3	3
Geo 210	Geographic Influence in American History	3	3
Geo 307	Geography of the U. S. S. R.	3	3
Geo 308	Trade and Transportation	3	3
Geo 309	World Problems	3	3

PLANNED PROGRAM IN SOCIAL WORK

The Pennsylvania Department of Public Welfare announces a program of professional education under which it will provide financial assistance for full time study in clinical psychology, nursing education, occupational therapy, physical therapy, psychiatric nursing and social work.

Eligibility:

Employees of the Department of Public Welfare, including its institutions and county boards of assistance; county child welfare agencies.

College graduates and Registered Nurses interested in a professional career in public welfare.

Requirements:

Acceptance by an accredited professional school within 350 miles of Harrisburg.

Persons not employed by the department may be required to take a civil service examination. Early inquiry is urged for notification of examination dates in the winter and early spring.

Agreement to accept one year of employment in the Department of Public Welfare for each year of professional education.

Financial Provisions and Future Employment:

1. Payment of tuition by the Department of Public Welfare.
2. Payment of salary as follows:
   A. Appointees with 12 months or more of employment, as outlined under **Eligibility,** will receive current salary reduced by two increment steps.
   B. Appointees with no employment, as outlined under **Eligibility,** will receive $118 biweekly before deductions for withholding tax, social security and state employees retirement.
3. Regular employment in a position for which the graduate qualifies. Appointments will be made in accordance with needs and appropriate regulations and may be in Department headquarters, departmental institutions (mental health or correctional), county boards of assistance or county child welfare agencies.

How to Apply:

Application forms and information about this Professional Education Program and Civil Service examinations may be obtained from the Bureau of Personnel, Department of Public Welfare, Harrisburg, Pennsylvania, any state mental institution or youth development center, county board of assistance or county child welfare agency.

May 1, of each year is the last date of application.

Preparations:

To enter a School of Social Work no particular sequence of courses is required so long as the applicant has a Bachelor's degree from an accredited institution. Course in the Social Sciences, particularly Sociology and Psychology, are most desirable. Students interested in preparing for a career in Social Work should contact the chairman of the Social Science Department.

THE HEALTH AND PHYSICAL EDUCATION CURRICULUM

Upon satisfactory completion of the requirements of this curriculum the student will be granted the degree of Bachelor of Science in Health Education by the College and will qualify for a Pennsylvania Provisional College Certificate to be issued by the Department of Public Instruction, Harrisburg, Pa. The certificate will be valid for teaching Health and Physical Education in the elementary and secondary schools of Pennsylvania for three years.

All Health and Physical Education major students must meet department extra-curricular requirements before they may attain Senior standing.

(Sequence of courses subject to change for administrative reasons)

	FIRST SEMESTER	Hours Clock	Semester
Eng 101	*English I	3	3
Eng 103	*Speech	2	2
Mat 101	*Introduction to College Mathematics	3	3
Edu 100	Social Foundations of Education	3	3
HEd 151	*Hygiene	3	3
HEd 131	*Aquatic Fundamentals (Men and Women)	3	1
HEd 111	*Soccer; Speedball; Marching; Exercise Fundamentals (Women)	3	1
HEd 111	*Introduction to Marching and Formal Gymnastics (Men)	3	1
HEd 121	*Fundamentals of Field Hockey; Volleyball (Women)	3	1
HEd 121	*Individual Sports for Men (Men)	3	1
		23	17

	SECOND SEMESTER		
HEd 152	First Aid	2	2
Eng 102	*English II	3	3
Che 120	*General Chemistry	3	3
HEd 261	History of Physical Education	2	2
Art 101	*Fine Arts	3	3
HEd 132	Advanced Aquatics and Water Safety (Men and Women)	3	1

*Required course in General Education.

DINING HALL — ARCHITECT'S DRAWING

		Hours	
		Clock	Semester
HEd 112	Gymnastic Fundamentals (Women)	3	1
HEd 112	Introduction to Apparatus (Men)	3	1
HEd 122	Fundamentals of Basketball and Tennis (Women)	3	1
HEd 122	Theory and Practice of Track and Field (Men)	3	1
		24	16

THIRD SEMESTER

Eng 221	*Literature I	3	3
His 101	*History of Civilization I	3	3
Psy 250	*General Psychology	3	3
Bio 261	Anatomy and Physiology I	5	3
HEd 241	*Elementary Rhythms and Folk Dancing (Men and Women)	3	1
HEd 211	Preparation for Teaching Elementary Physical Education (Men and Women)	3	1
HEd 221	Advanced Tennis and Field Hockey; Badminton (Women)	3	1
HEd 221	Soccer and Wrestling (Men)	3	1
	Elective	3	3
		26	18

FOURTH SEMESTER

Eng 222	Literature II	3	3
His 102	History of Civilization II	3	3
Mus 220	Fine Arts	3	3
Bio 262	Anatomy and Physiology II	5	3
HEd 242	Social, Square and Advanced Folk Dancing (Men and Women)	3	1
HEd 212	Advanced Gymnastics; Tap Dancing (Women)	3	1
HEd 212	Advanced Apparatus (Men)	3	1
HEd 222	Advanced Basketball; Lacrosse (Women)	3	1
HEd 222	Basketball and Baseball (Men)	3	1
		23	15

*Required course in General Education.

		Hours	
	FIFTH SEMESTER	Clock	Semester
His 312	History of the United States and Pa. II	3	3
HEd 362	Physical Education for Elementary Grades ..	3	2
HEd 361	Tests, Measurements and Guidance in Health and Physical Education	3	3
HEd 351	Human Development	3	3
HEd 363	Applied Physiology	2	2
HEd 321	Coaching and Officiating Techniques in Basketball and Hockey (Women)	3	1
HEd 321	Football (Men)	3	1
HEd 311	Special Events in Physical Ed. (Women) ...	3	1
HEd 311	Preparation for Teaching Secondary Physical Education (Men)	3	1
		20	15
	SIXTH SEMESTER		
Edu 350	Educational Psychology	3	3
HEd 365	Physical Activities for Atypical Children I ..	2	2
HEd 364	Organization and Administration of Physical Education	3	3
HEd 352	Methods and Materials in Health Education..	3	2
HEd 322	Individual Sports for Women; Track and Field; Archery; Golf (Women)	3	1
HEd 322	Organization and Administration of Intramural Athletics (Men)	3	1
HEd 312	Preparation for Teaching Secondary Physical Education; Recreational Games; Softball (Women)	3	1
HEd 312	Exhibition Gymnastics (Men)	3	1
Edu 300	Audio-Visual Education	3	2
	Elective	3	3
		23	17
	SEVENTH SEMESTER		
Phi 480	Introduction to Philosophy	3	3
PSc 231	American Government	3	3
HEd 461	Physical Activities for Atypical Children II.	3	2
HEd 462	Principles of Recreation	2	2
HEd 463	Principles of Coaching	2	2
	Electives	5	5
		18	17
	EIGHTH SEMESTER		
HEd 471	Student Teaching and Direction of Student .. Activities	30	12
HEd 472	Professional Practicum Including School Law	2	2
		32	14

Total Semester Hours Required for Graduation 128

Students may also elect courses in academic fields and special curricula for which they are qualified.

RECREATION LEADERSHIP

For students who desire to prepare as recreation leaders, an elective area is provided.

		Hours Clock	Semester
REQUIRED COURSES — 16 semester hours			
HEd 131	*Aquatic Fundamentals	3	1
HEd 132	*Aquatics and Water Safety	3	1
HEd 152	*First Aid	2	2
HEd 241	*Elementary Rhythms and Folk Dancing	3	1
HEd 242	*Social, Square and Advanced Folk Dancing	3	1
HEd 321	*Football (Men)	3	1
HEd 321	*Coaching and Officiating Techniques in Basketball and Hockey (Women)	3	1
HEd 322	*Organization and Administration of Intramural Athletics (Men)	3	1
HEd 322	*Individual Sports for Women; Track and Field; Archery; Golf (Women)	3	1
HEd 366	Organization and Administration of Recreation	3	3
HEd 462	*Principles of Recreation	2	2
HEd 464	Supervised Recreation Leadership	6	3
		31	16

ELECTIVE COURSES — 8 semester hours

to be chosen from two or more of the following fields:

HEd 331	Aquatic Leadership	3	2
HEd 341	Modern Dance I	2	1
HEd 342	Modern Dance II	2	1
HEd 353	Advanced First Aid	2	2
HEd 367	Arts and Crafts in Recreation	3	3
HEd 368	Music in Recreation	3	3
HEd 369	Dramatics in Recreation	3	3
HEd 370	Camping and Outing	3	3

*Health and Physical Education Major students receive credit for these courses since they are required courses for the major field.

A PROGRAM OF INDEPENDENT STUDY AND SUPERVISED FIELD EXPERIENCE IN CAMPING

The Department of Health, Physical Education, and Recreation offers a special program of courses in camp leadership for staff members at children's summer camps. These courses are designed to aid the student's professional growth and knowledge through directed leadership experience with children in the informal atmosphere of the camp.

COURSES AVAILABLE

Undergraduate Students

HEd 464 Supervised Recreation Leadership — 3 credits
(6 to 8 weeks' attendance at camp July through August)

ELIGIBILITY:

Any matriculated student at West Chester State College is eligible to participate in the program. Permission of the special adviser should be obtained if credit is to be applied toward a degree. Students from other colleges may register with the permission of the course instructor. It is suggested that students enrolled at other colleges obtain the approval of their special adviser or appropriate administrative officer to assure that these courses may be applied toward degree requirements.

EDUCATION FOR SAFE LIVING (HIGHWAY SAFETY AND GENERAL SAFETY EDUCATION)

The standards for certification as approved by the State Council of Education, January 9, 1948, require twelve semester hours **for the extension of a teacher's certificate to include this field.**

The following courses are offered by the College to satisfy the course requirement in this field:

Course descriptions on pages 150-151

		Hours Clock	Semester
HEd 481	Introduction to Safety Education	3	3
HEd 482	Driver Education and Training	3	3
HEd 483	Psychology of Accident Prevention ...	3	3
HEd 484	Methods and Materials in Safety Education	3	3
HEd 485	Organization and Supervision in Safety Education	3	3

PRE-PHYSICAL THERAPY PROGRAM

In order to fulfill the need for personnel qualified in both Health and Physical Education and Physical Therapy, a Pre-Physical Therapy Program is offered. Upon successful completion of this program, students will be granted the Bachelor of Science Degree in Health and Physical Education and will receive endorsement for matriculation into an approved post-graduate school of Physical Therapy. The entire undergraduate program will be under the supervision and guidance of a professional Registered Physical Therapist in the Health and Physical Education Department.

In addition to the requirements for the Bachelor of Science Degree in Health and Physical Education, the following special requisites must be met:

I. Filing of application for admission to the Pre-Physical Therapy Program.

II. A screening evaluation at the end of the sophomore year to include:

a. Pre-college credentials.

b. Academic, social and emotional status during the freshman and sophomore years with special emphasis on academic attainment in all science and health courses.

c. Analysis of the college sequential testing program.

d. Testing for special interest and aptitude.

III. After attaining Junior standing, students will be required to successfully complete the special junior and senior year elective offerings as follows:

		Clock Hours	Sem. Credits
JUNIOR			
HEd 392	Introduction to Physical Therapy	2	2
SENIOR			
HEd 491	Pre-Physical Therapy Seminar and Observation	9	3

After graduation from the State College at West Chester and enrollment in a School of Physical Therapy, students will be required to complete a twelve months program of professional training. Upon completion of this program they will receive a Certificate in Physical Therapy granted by the Physical Therapy School and will be eligible to take national and state examinations as indicated for the practice of Physical Therapy.

THE MUSIC EDUCATION CURRICULUM

Upon satisfactory completion of the requirements of this curriculum, the student will be granted the degree of Bachelor of Science in Music Education by the College and will qualify for a Pennsylvania Provisional College Certificate to be issued by the Department of Public Instruction, Harrisburg, Pa. The certificate will be valid for teaching music in the elementary and secondary schools of Pennsylvania for three years.

(Sequence of courses subject to change for administrative reasons)

		Hours	
	FIRST SEMESTER	Clocek	Semester
Eng 101	English I	3	3
Eng 103	Speech	2	2
Sci 100	Biological Science	3	3
Mus 100	Foundations of Music	3	3
HEd 150	Health	2	2
Mus 21	Violin I (Class)	2	1
Mus 61	Chorus	2	1/3
	Piano (private lesson)	½	1
	Voice (private lesson)	½	1
		18	16 1/3
	SECOND SEMESTER		
Eng 102	English II	3	3
Edu 100	Social Foundations of Education	3	3
Mus 110	Theory of Music	3	3
Mus 211	Sight Singing	3	3
HEd 208	Physical Education III	2	1
Mus 22	Violin II (Class)	2	1
Mus 71 or 81	Orchestra or Band	2	1/3
Mus 62	Chorus	2	1/3
	Piano	½	1
	Voice	½	1
		21	16 2/3
	THIRD SEMESTER		
Eng 221	Literature I	3	3
His 101	History of Civilization I	3	3
Mus 201	Theory of Music	3	3
Mus 212	Sight Singing	2	2
Psy 250	General Psychology	3	3
Mus 031	Clarinet (Class)	1	½
Mus. 72 or 82	Orchestra or Band	2	1/3
Mus 63	Chorus	2	1/3
	Piano	½	1
	Voice	½	1
		20	17 1/6

			Hours Clock	Semester
		FOURTH SEMESTER		
Eng	222	Literature II	3	3
His	102	History of Civilization II	3	3
Mus	331	Choral Conducting	2	2
Mus	202	Theory of Music	3	3
HEd	107	Physical Education (Eurythmics I)	2	1
Mus	032	Clarinet (Class)	1	½
Mus	73 or 83	Orchestra or Band	2	1/3
Mus	64	Chorus	2	1/3
		Piano	½	1
		Voice	½	1
			19	15 1/6
		FIFTH SEMESTER		
Mus	351	Human Development	3	3
Mus	312	Instrumental Methods	3	2
Mus	311	Secondary School Methods	2	2
Mus	332	Instrumental Conducting	2	2
Mus	301	Theory of Music	3	2
HEd	207	Physical Education II (Eurythmics II)	2	1
Mus	41	Trumpet (Class)	1	½
Mus	74 or 84	Orchestra or Band	2	½
Mus	65	Chorus	2	1/3
		Piano	½	1
		Voice	½	1
			21	15 1/6
		SIXTH SEMESTER		
His	312	History of U.S. and Pennsylvania II	3	3
Edu	350	Educational Psychology	3	3
Mus	220	Fine Arts (Music)	3	3
Art	101	Fine Arts (Art)	3	3
Mus	42	Trumpet (Class)	1	½
Mus	66	Chorus	2	1/3
		Elective	2	2
		Piano	½	1
		Voice	½	1
			18	16 5/6
		SEVENTH SEMESTER		
Psc	231	American Government	3	3
Phi	480	Introduction to Philosophy	3	3
Mus	233	Acoustics — Physical Science	3	3
Mus	310	History of Music	3	3
Mus	51	Percussion	1	½
		Major Musical Organization	2	½
		Piano, Voice, or Instrument	½	1
		Elective	2	2
			17½	16

	EIGHTH SEMESTER	Hours Clock	Hours Semester
Mus 421	Student, Teaching, Direction of) Student Activities, and) Professional Practicum)	32	12
	Major Musical Organization	2	½
	Elective (Applied Music)	½	1
	Piano, Voice or Instrument	½	1
		35	14½

Total Semester Hours Required for Graduation 128

ELECTIVES—

Mus 320	American Music	2	2
Mus 324	Choral Materials and Practices	2	2
Mus 321	Counterpoint	2	2
Mus 322	Orchestration	2	2
Mus 323	Composition	2	2
Mus 325	Class Piano Methods	2	2
Mus 326	Instrumental Techniques	2	2
	Applied Music		
	Class Lesson	1	½
	Private Lesson	½	1

Students may also elect courses in academic fields and special curricula for which they are qualified.

DEGREE CURRICULUM FOR DENTAL HYGIENISTS

The degree of Bachelor of Science in Education will be conferred upon Dental Hygienists meeting the following requirements:

1. The possession of a valid license to practice dental hygiene in the Commonwealth of Pennsylvania issued by the State Dental Council and Examining Board and the Department of Public Instruction.

   "The professional education requirement for dental hygiene is the satisfactory completion of an approved dental hygienist course of instruction of two years of not less than thirty-two weeks of not less than thirty hours each week or its equavalent in and graduation from a dental hygiene school approved by the State Council and Examining Board."*

*Bulletin 644, 1950; Rules and Regulations for Applicants for Admission to Examination for Licensure to Practice Dentistry and Dental Hygiene and Examination Procedures.

2. The satisfactory completion in addition thereto of 60 semester hours of professional and general education courses distributed as follows:

		Semester Hours
A. EDUCATION		**11**
Edu 100	Social Foundations of Education	3
Psy 250	General Psychology	3
Edu 300	Audio-Visual Education	2
Edu 350	Education Psychology	3
B. GENERAL EDUCATION		**44**
English		
Eng 101, 102	English I and II	6
Eng 103	Speech	2
Eng 221	Literature I	3
Eng 222	Literature II	3
Fine Arts		
Art 101	Fine Arts	3
Mus 220	Fine Arts	3
Geography		
Geo 101	World Geography	3
Geo 202	Geography of the United States and Canada	3
Social Science		
		Semester Hours
His 101	History of Civilization I	3
His 102	History of Civilization II	3
PSc 231	American Government	3
Eco 231	Economics	3
His 211	History of the United States and Pennsylvana I	3
Soc 231	Sociology	3
C. ELECTIVES		**9**
	Total	64

Electives may be chosen with the approval of the Dean of Instruction from any academic field or curriculum offered at the College.

In each category above, credit will be given for equivalent courses pursued in the two year Dental Hygiene Curriculum. In such cases students must increase their electives by the number of semester hours so credited.

In the case of dental hygienists who had less than two years of specialized training on the basis of which they were licensed to practice dental hygiene, proportional credit will be given. Such persons must pursue additional general education courses in college to make up the deficiency.

Application for Admission

A dental hygienist who desires to enroll in the Degree Curriculum for Dental Hygienists should write for application blanks and information to the Director of Admissions, West Chester State College, West Chester, Pa.

Resident Requirements

The last 30 semester hours of credits must be earned at West Chester State College. Resident credits may be earned in day, evening, and Saturday classes which are offered on campus or approved by the college administration.

SUMMARY OF COSTS PER YEAR

For Students Enrolled in the Degree Curriculum for Dental Hygienists

I. Full-time Students who are legal residents of Pennsylvania*

A. Boarding at the College

Basic Fee	$250.00
Activity Fee	35.00
Books and Supplies (approximately)	80.00
Room and board	612.00
	$977.00

B. Day Students—Living at Home

Basic Fee	$250.00
Activity Fee	35.00
Books and Supplies (approximately)	80.00
	$365.00

II. Part-time Campus Students and Off-Campus Extension Students

Pennsylvania residents taking eleven or less semester hours shall pay at the rate of $12.50 per semester hour (minimum basic fee, $37.50). Students taking twelve or more hours shall pay the regular basic fee.

Students who are not residents of Pennsylvania who take eleven or less semester hours shall pay the rate of $15 per semester hour (minimum basic fee, $60).

DEGREE CURRICULUM FOR PUBLIC SCHOOL NURSES

The degree of Bachelor of Science in Education will be conferred upon registered nurses who meet the following requirement.

The satisfactory completion of a three-year curriculum in an approved school of nursing and registration by the State Board of Examiners for the Registration of Nurses of Pennsylvania, and sixty semester hours of credit distributed as follows:

A. Courses Related to Public Nursing:

			Semester Hours
PSN	300	Public School Nursing	2
PSN	302	Public Health Nursing I	3
PSN	303	Public Health Nursing II	3
PSN	304	Foundation of Nutrition	3
PSN	306	Prevention and Control of Communicable Diseases	3
		Sub Total	14

B. General Education

Eng	102-N	English Composition	3
Eng	103	Speech	2
Eng	221	General Literature	3
His	101		
or	102	History of Civilization	3
His	211	History of U.S. and Pennsylvania I	3
PSc	231	American Government	3
Soc	231	Principles of Sociology	3
Sci	100	Biological Science	3
Psy	250	General Psychology	3
Psy	370	Mental Hygiene	3
		Sub Total	29

C. Professional Education

Edu	100	Social Foundations of Education	3
Edu	350	Educational Psychology	3
Edu	331	Child Development or	
or	352	Adolescent Psychology	3
Edu	306	Introduction to Counseling and Guidance	3
		Sub Total	12

D. Electives

Phi	480	Philosophy	3	
Mus	220	Fine Arts—Music Appreciation	3	
Art	101	Fine Arts—Art Appreciation	3	
Mat	101	Introduction to College Mathematics	3	
		Any two courses for a total of not less than 5 credits		5
		Total		60

In the case of nurses with less than three years preparation for registration, such persons will pursue additional courses to meet the requirements for the degree.

Application for Admission

A registered nurse who desires to enroll in the Degree Curriculum for Public School Nurses should write for application blanks and information to the Director of Admissions, West Chester State College, West Chester, Pa.

Resident Requirements

The last 30 semester hours of credits must be earned at West Chester State College, to qualify for graduation. Resident credits may be earned in day, evening, and Saturday classes which are offered on campus or approved by the college administration.

SUMMARY OF COSTS PER YEAR

For Students Enrolled in the Degree Curriculum for Public School Nurses

I. Full-time Students who are legal residents of Pennsylvania*

A. Boarding at the College

Basic Fee	$250.00
Activity Fee	35.00
Books and Supplies (approximately)	80.00
Room and board	612.00
	$977.00

B. Day Students—Living at Home

Basic Fee	$250.00
Activity Fee	35.00
Books and Supplies (approximately)	80.00
	$365.00

II. Part-time Campus Students and Off-Campus Extension Students

Pennsylvania residents taking eleven or less semester hours shall pay at the rate of $12.50 per semester hour (minimum basic fee—$37.50). Students taking twelve or more hours shall pay the regular Basic Fee.

Students who are not residents of Pennsylvania who take eleven or less semester hours shall pay at the rate of $20 per semester hour (minimum basic fee, $60).

LIBERAL ARTS CURRICULA

In May, 1962, the State Council of Education approved the College's application to offer liberal arts curricula in Humanities, Social Sciences, and Natural Sciences. The satisfactory completion of a four-year course of study in any of these three areas will lead to the degree of Bachelor of Arts.

BACHELOR OF ARTS DEGREE

For the bachelor of arts degree a minimum of 128 credit hours must be completed. These must include 66 credit hours of the general core curriculum and at least 62 credit hours of specialized and elective work. The three areas of specialization include: Humanities, Social Sciences, Natural Sciences and Mathematics.

Each area of specialization beyond the General Core Curriculum permits an Area of Concentration in addition to the Specialization Required Core subjects. Specific information regarding required general core curriculum and areas of specialization is shown on the pages which follow. It should be noted that students are expected to work closely in their areas of specialization with area advisors.

General Requirements

Semester Hours

I General Education Requirements 62

A. Basic Core: Skills and Competencies 15
   1. English (9)
      a. Composition (6)
      b. Speech (3)
   2. Foreign Language (intermediate level) (6)

B. Humanities 15
   1. Literature* (6)
   2. Fine Arts (6)
      a. Art (3)
      b. Music* (3)
   3. Philosophy (3)

C. Social Sciences 18
   1. History of Civilization (6)
   2. Two electives from areas of Anthropology, Sociology, Economics, or Political Science (6)
   3. Geography of World Culture Realms (3)
   4. Psychology (3)

D. Natural Sciences 14
1. Biological or Physical Science (year course)* (8)
2. Mathematics* (6)
(Three of the six credits may be taken in Logic)

II Health and Physical Education Requirement 4

Total..... 66

* Students with concentrations in these fields will substitute other courses.

HUMANITIES

Philosophy and Objectives

The department of humanities holds that education is basically an intellectual process and that it must be approached scientifically. We believe that all education must be related to man as a member of society.

At West Chester, the humanities are designed to further the development of man's relation to his social environment in the community, the nation, and the world. We believe that the humanities aid man in adapting himself to his social relationships and, in a considerable degree, of constructively and rationally seeking to adapt his social relationship to his life.

Specifically, the program in humanities is designed to expose the student to the arts, not as the mere relief of tedium in hours of leisure, but as a positive explanation of man's inheritance from the past and of his obligation to the present and the future.

We believe with John Milton that the humanities are designed to fit the individual "to perform justly, skillfully, and magnanimously all the duties, public and private, of peace and war." This will apply to business, the professions, and graduate work.

Curriculum In Humanities

Course Area	Semester Hours
I General Requirements	66
II Required Humanities Core Beyond General Requirements ..	29-32
A. Philosophy or Great Books	6
B. History and Literature of Drama and Theater	6

C. Music History and Literature 6

D. Art History 6

E. Electives (two- or three-way combination) 5-8

1. Aesthetics 2-3
2. Literature 2-3
3. Music (including applied music) 2-3
4. Art (including studio art) 2-3

(Note: A through D are year courses)

III Elective Areas of Concentration as Advised 21-24

A. **Literature:** Closely related elective courses centered on a choice of English, American, or general literature.

B. **Theater Arts:** Departmental and interdepartmental courses bringing together art, music, drama, and the dance as related to theatrical performance and dramatic and musico-dramatic production.

C. **Fine Arts:** Departmental and interdepartmental courses devoted to the history and appreciation of the fine arts plus courses in studio art, music theory, and applied music.

D. **Language - Linguistics:** Twelve hours of language, six at intermediate level, plus courses in language history, usage, and techniques.

IV Free Electives as Advised 9-12

A. Second language or second year of language strongly recommended.

B. Special interdepartmental courses devoted to literary and artistic contributions of great cultural epochs plus courses in criticism, history, psychology, and comparative philosophy, religion, and ethics.

Total 128

LIBERAL ARTS: HUMANITIES CURRICULUM

(Sequence of courses subject to change for administrative reasons)

		FIRST SEMESTER	Hours Clock	Semester	
Eng	101	English I	3	3	
Eng	103	Speech	3	3	
Bio	101	Biological Science or Physical Science I	6	4	
Art	101	Introduction to Art	3	3	
Language	103	Language of Choice	3	3	
HEd	104	Physical Education	2	1	
			20	17	17

SECOND SEMESTER

Eng	102	English II	3	3	
Bio	102	Biological Science or Physical Science II	6	4	
Mus	220	Introduction to Music	3	3	
Language	104	Language of Choice	3	3	
HEd	204	Physical Education	2	1	
		Elective	3	3	
			20	17	34

THIRD SEMESTER

Eng	221	General Literature I	3	3	
His	101	History of Civilization I	3	3	
Mat	101	Introduction to College Math. I	3	3	
Geo	103	Geography of World Culture	3	3	
HEd	150	Health	2	1	
		Elective	3	3	
			17	16	50

FOURTH SEMESTER

Eng	222	General Literature II	3	3	
His	102	History of Civilization II	3	3	
Mat	102	Introduction to College Math. II	3	3	
		Elective	6	6	
			17	16	66

			Hours Clock	Semester	
		FIFTH SEMESTER			
Phi	480	Introduction to Philosophy	3	3	
		Specialized courses	—	—	
		Electives	—	—	
					81
		SIXTH SEMESTER			
Psy	250	General Psychology	3	3	
		Specialized courses	—	—	
		Electives	—	—	
					96
		SEVENTH SEMESTER			
		Specialized courses	—	—	
		Electives	—	—	
					114
		EIGHTH SEMESTER			
		Specialized courses	—	—	
		Electives	—	—	
					128

OFFERINGS FOR CONCENTRATION AREAS IN THE HUMANITIES

A. LITERATURE

American Literature I, II
American Poetry
American Prose
English Literature I, II
Chaucer
Tudor Literature
Stuart Literature
Eighteenth Century Literature
The Romantic Movement
Victorian Prose
Victorian Poetry
The Novel to 1870
Contemporary Novel
Contemporary Poetry
The Literature of Biography
The Essay
Short Story
Creative Writing
Criticism
American Fiction to 1900
The Bible as Literature
Medieval Literature in England
Classical Mythology

B. THEATER, ARTS

1. Literature

English Drama to Renaissance
English Drama, 1660 to 1900
Modern Drama

2. Dramatics

Principles of Acting
Principles of Directing
Principles of Stagecraft, Lighting, and Sound
Creative Drama
Little Theater Workshop

3. Art

Principles of Scenic and Costume Design

4. Dance

Principles of Choreography
Modern Dance

5. Music

Literature of the Musical Theater
Musico—Dramatic Production
Techniques of Rehearsing

6. Criticism

Dramatic Criticism (see A)
Musical Aesthetics and Criticism

C. FINE ARTS

1. Art

Introduction to Art
Art I: Western Art
Art II: Non-Western Art
Creative Art: Painting
Creative Art Sculpture
Arts and Crafts

2. Music

History and Literature I, II
Theory: Foundations
Applied Music: Voice, Instrument, Music Ensemble
Electives: Areas of History and Literature and Applied Music

3. Literature Electives

(Refer to A)

4. Aesthetics and Criticism

Art Aesthetics
Musical Aesthetics and Criticism

5. Seminar

Interdepartmental Seminar in Fine Arts Problems

D. LANGUAGE — LINGUISTICS

1. Languages*

Intermediate French I, II
Advanced Oral French
Intermediate Spanish I, II
Intermediate German I, II
Intermediate Russian I, II
Beginning Latin I, II
Literature Electives: French, Spanish, German, Latin

2. Linguistics

History of the English Language
Advanced English Grammar: History and Usage
French: Advanced Language and Techniques
German: Advanced Language and Techniques
Latin: Advanced Language and Techniques

*Elementary levels also offered.

SOCIAL SCIENCE

Philosophy and Objectives

The Social Science Department believes that the primary purpose of education is intellectual and that the scientific method can be applied to the study of human relations and institutions. Politics, economics, sociology, anthropology, geography and history come within the scope of the social sciences at West Chester, for each of these is concerned with the study of human institutions, customs, and behavior.

At West Chester the social sciences are geared to the development of national pride and to the appreciation of the social order in which the students live. Equally important as a tenet of ideals is the belief that the social sciences should also develop an appreciation for the institutions and mores of other lands in the interest of furthering world understanding.

More specifically, the program leading to the degree of Bachelor of Arts with a concentration in the social sciences is designed, beyond the basic two years of prescribed general studies, to provide the student with a broad coverage of the fields of history, political science, economics, sociology, anthropology, and geography. In addition, the program also provides for further specialized concentration in particular social sciences. Careers in government, journalism, law, the civil service, and many other fields may develop following participation in this program.

Curriculum In Social Sciences

Course Area	Semester Hours
I General Requirements	66
II Required Social Science Core Beyond General Requirements	36
A. History	12
1. History of U.S. I, II	6
2. Electives	6
B. Political Science	6
1. American Government	3
2. Elective	3

C. Economics 6

1. Principles of Economics 3

2. Elective 3

D. Sociology and Anthropology 6

1. Principles of Sociology 3

2. Cultural Anthropology 3

E. Geography Elective 3

F. Senior Seminar 3

III Elective Areas of Concentration As Advised 15
Each student must select an additional 15 hours of electives in one of the following: History, Political Science, Economics, Sociology-Anthropology, Geography.

IV Free Electives As Advised 11

Total 128

LIBERAL ARTS: SOCIAL SCIENCES

(*Sequence of courses subject to change for administrative reasons*)

	FIRST SEMESTER	Hours Clock	Hours Semester	
Eng 101	English I	3	3	
Eng 103	Speech	3	3	
His 101	History of Civilization I	3	3	
Bio	Biology or Physical Science I	6	4	
Lan 103	Language of Choice	3	3	
HEd 104	Physical Education I	2	1	
		20	17	17
	SECOND SEMESTER			
Eng 102	English II	3	3	
His 102	History of Civilization II	3	3	
Bio	Biology or Physical Science II	6	4	
Lan 104	Language of Choice	3	3	
Mus 220	Introduction to Music	3	3	
HEd 204	Physical Education II	2	1	
		20	17	34

THIRD SEMESTER

Eng 221	General Literature I	3	3	
His 211	History of United States I	3	3	
Mat 101	Introduction to College Mathematics I	3	3	
Art 101	Introduction to Art	3	3	
Geo 103	Geography of World Culture Realms	3	3	
HEd 150	Health	2	1	
		17	16	50

FOURTH SEMESTER

Eng 222	General Literature II	3	3	
His 212	History of the United States II	3	3	
Mat 102	Introduction to College Mathematics II	3	3	
Ant 231	Cultural Anthropology	3	3	
	Social Science elective	3	3	
HEd 205	Physical Education	2	1	
		17	16	66

FIFTH SEMESTER

Phi 480	Introduction to Philosophy	3	3	
Soc 231	Principles of Sociology	3	3	
Eco 231	Principles of Economics	3	3	
	Social Science electives	6	6	
		15	15	81

SIXTH SEMESTER

Psy 250	General Psychology	3	3	
PSc 231	American Government	3	3	
	Social Science electives	9	9	
		15	15	96

SEVENTH SEMESTER

	Social Science electives	12	12	
	Free electives	6	6	
		18	18	114

EIGHTH SEMESTER

SSc 400	Senior Seminar	3	3	
	Social Science electives	6	6	
	Free electives	5	5	
		14	14	128

COURSE OFFERINGS FOR CONCENTRATION AREAS IN THE SOCIAL SCIENCES

A. History

1. American History

History of U. S. I, II
History of Pennsylvania
Diplomatic History of U.S.
Economic History of the U.S.
History of the American Frontier
Constitutional History of U.S.
History of American Science and Technology

2. European History

Medieval Europe
Renaissance and Reformation
Modern Europe to 1815
Modern Europe Since 1815
History of England
History of Russia

3. Regional History

Ancient World
History of the Far East
History of the Middle East
History of Latin America
History of the Twentieth Century World

B. Political Science

American Government
State and Local Government
Comparative Government
International Relations
American Political Parties
Soviet Government and Politics
American Political Ideas

C. Economics

Principles of Economics
Contemporary Economic Problems
Consumer Economics
Industrial Relations
Money and Banking
Business and Government
Economic Growth and Development
International Economics

D. Sociology and Anthropology

Principles of Sociology
Contemporary Social Problems
The Family
Juvenile Delinquency
Racial and Cultural Minorities
Urban Sociology
Cultural Anthropology
Human Evolution
Social Organization
World Ethnography
Cultural Dynamics

E.—Geography

Geography of World Culture Realms
Conservation of Natural Resources
Geography of Europe
Geography of Latin America
Geography of the U.S.S.R.
Geographic Influences in American History
Trade and Transportation
World Problems
The U.S. in Its Global Relationship
Economic Geography
Geography of U.S. and Canada
Cartography
Geography of Africa
Geography of Asia
Geography of Far East
Field Course in Geography

F. Seminar

Senior Seminar in Social Science

NATURAL SCIENCES

Philosophy and Objectives

The Natural Sciences at West Chester include three broad areas of study: the biological sciences (botany and zoology), the physical sciences (chemistry and physics), and mathematics.

The Natural Science courses in the general education program are intended to provide an understanding of the fundamental principles in each area and to develop an appreciation of the role of the various natural sciences in the progress of civilization., In addition these courses aim to develop the ability to use scientific methods including abstract, logical reasoning.

The program leading to the degree Bachelor of Arts with a concentration in the natural sciences is designed to provide the student with training in breadth and depth in the biological sciences, the physical sciences and in mathematics. Major students are provided with a broad understanding of the nature and behavior of matter and living forms and of mathematics by the use of experimentation and other research techniques. These approaches are intended to serve both as a tool for the sciences and as an abstract deductive discipline. The program, moreover, is designed to provide further specialized concentration in the sciences which will prepare students for graduate study and careers in resarch in government and industry.

Curriculum In Natural Sciences

Course Area		Semester Hours
I	General Requirements	66
II	Required Natural Science Core Beyond General Requirements	25
	A. Biological Sciences	8
	The student will select a year course in either Zoology I, II or Botany I, II.	
	B. Physical Sciences	8
	The student will select a year course in either Geology I, 11; Physics I, II or Chemistry I, II.	

C. Earth and Space Science 3

D. Mathematics 6

Courses in this area will vary depending on the concentration area chosen below.

III Elective Areas of Concentration As Advised 24-26

A. Biological Sciences (Botany or Zoology)

B. Physical Sciences (Physics or Chemistry)

C. Mathematics

IV Free Electives As Advised 11-13

Total.... 128

NATURAL SCIENCES AND MATHEMATICS

(Sequence of courses subject to change for administrative reasons)

	FIRST SEMESTER	Hours Clock	Semester
Eng 101	English I	3	3
Eng 103	Speech	3	3
Mat 105	College Algebra and Trigonometry*	3	3
	Science Elective (Chem. I, Phys. I, Bot. I, Geol. I, Zool. I)**	6	4
Lan 103	Language of Choice	3	3
HEd 104	Physical Education	2	1
		20	17

*This course may be omitted by students with advanced preparation. Such students will begin the Mathematics sequence with Analytic Geometry.

**The science elective should be in the field of specialization for students in the Biological and Physical Sciences.

SECOND SEMESTER

Eng 102	English II	3	3
Mat 131	Analytic Geometry	3	3
	Science Elective (Continuation of preceding elective)	6	4
Lan 104	Language of Choice	3	3
HEd 204	Physical Education	2	1
	Elective	3	3
		20	17

THIRD SEMESTER

Eng 221	General Literature I	3	3
Mat 241	Differential Calculus	3	3
His 101	History of Civilization I	3	3
	Science Elective	6	4
HEd 150	Health	2	1
	Elective	3	3
		20	17

		Hours	
	FOURTH SEMESTER	Clock	Semester
Eng 222	General Literature II	3	3
Mat 242	Integral Calculus	3	3
His 102	History of Civilization II	3	3
	Science Elective	6	4
HEd 205	Physical Education	2	1
	Elective	3	3
		20	17

FIFTH SEMESTER

Phi 480	Introduction to Philosophy	3	3
	Science Elective	6	4
	Electives in Natural Science and/or Mathematics under advisement	—	6
	Social Science Elective	3	3
		—	—
			16

SIXTH SEMESTER

Psy 250	General Psychology	3	3
	Science Elective	6	4
	Electives in Natural Science and/or Mathematics under advisement	—	6
	Social Science Elective	3	3
		—	—
			16

SEVENTH SEMESTER

Art 101	Introduction to Art	3	3
Geo 103	Geography of World Culture	3	3
	Free Electives under advisement	6	6
	Field of Specialization	3	3
		15	15

EIGHTH SEMESTER

Mus 220	Introduction to Music	3	3
	Free Electives under advisement	6	6
	Field of Specialization	6	6
		15	15

Total 130

COURSE OFFERINGS FOR CONCENTRATION AREAS IN THE NATURAL SCIENCES

A. BIOLOGICAL SCIENCE

Botany I
Botany II
Zoology I
Zoology II
Field Botany
Field Zoology
Comparative Anatomy
Ornithology
Genetics
Ecology
Bacteriology
Biochemistry
Entomology
Parasitology
Mammalian Anatomy
Plant Physiology
General Physiology
Embryology
Freshwater Biology
Wildlife Conservation
Organic Evolution
Histology
Cytology
Plant Taxonomy
Biological Literature
Biology Seminar
Special Problems in Biology

B. PHYSICAL SCIENCES

1. Chemistry

Inorganic Chemistry I, II (Gen. Ed)

Organic Chemistry I, II

Physical Chemistry I, II

Qualitative Analysis

Quantitative Analysis

Qualitative Organic Analysis

Advanced Analytical Methods

Advanced Inorganic Chemistry

Introduction to Chemical Research, Including Literature

Seminar

2. Geology

Geology I

Geology II

3. Physics

Physics I, II (Gen. Ed.)

Atomic Physics

Modern Physics

Analytical Mechanics I

Analytical Mechanics II

Thermodynamics and Heat

Experimental Physics

Electronics I, II

Optics I, II

Electromagnetic Radiation

Astronomy

Seminar

Atomic Physics Laboratory

Introduction to Research

C. MATHEMATICS

College Algebra and Trigonometry

Analytic Geometry

Differential Calculus

Integral Calculus

Intermediate Calculus

Differential Equations

Advanced Algebra

Modern Algebra I, II

College Geomerty

Modern Geometry

Advanced Calculus I, II

Mathematical Statistics

History of Mathematics

Topology

Special Topics in Mathematics

Seminar

CERTIFICATION OF TEACHERS

School Laws of Pennsylvania, Section 1202.

State Certificates.

State certificates shall be issued as herein provided. Each such certificate shall set forth the branches which its holder is entitled to teach. No teacher shall teach, in any public school, any branch which he has not been properly certificated to teach.

A certificate to teach shall not be granted or issued to any person not a citizen of the United States, except in the case of exchange teachers not permanently employed and teachers employed for the purpose of teaching foreign languages.

Provisional College Certificate

A student who satisfactorily completes one of the curricula offered by the College receives his degree from the College and qualifies for a Provisional College Certificate which is issued to him upon application to the Department of Public Instruction, Harrisburg, Pa.

In the elementary field this certificate qualifies the holder to teach in the elementary schools of Pennsylvania for three years.

In the secondary field this certificate qualifies the holder to teach the subjects written thereon in the secondary schools of Pennsylvania for three years.

In health education and music education the certificate qualifies the holder to teach and supervise the special subject in both elementary and secondary schools of Pennsylvania for three years.

Permanent College Certificate

The Permanent College Certificate requires three years of successful teaching in the public schools of the Commonwealth of Pennsylvania under the Provisional College Certificate and the satisfactory completion of 24 semester hours of additional work of collegiate grade, completed subsequent to the issuance of the baccalaureate degree. One-half of the additional work must be professional in character and the remainder be related to the subject or subject fields on the certificate. This certificate is a permanent license to teach in Pennsylvania.

Provisional College Certificates issued after October 1, 1963, shall require for validation for the permanent form of the certificate the completion of twenty-four (24) semester hours of approved post-baccalaure-

ate or graduate work including twelve (12) semester hours in the academic content area, unless otherwise specified, and the remainder in any one or a combination of general education, professional education, and subject-matter specialization.

All Permanent Certificates will continue to require the basic course in the History of the United States and of Pennsylvania as well as a basic course in visual aids and sensory techniques. It is recommended that these requirements be part of the undergraduate preparation for all teachers.

Effective October 1, 1963, the College Provisional Certificate will be valid for three years of teaching and may be renewed for an additional three-year period upon the completion of three years of successful teaching experience and twelve (12) semester hours of post-baccalaureate work.

Extension of College Certificates

1. A college certificate valid for the secondary field may be extended to include the elementary field by completing twenty-four semester hours of approved courses in the field of elementary education, distributed as follows; a course in the teaching of reading; the remainder selected from a minumum of four of the following areas; mathematics, arts and crafts, music, physical education, language arts, sciences, social studies, geography, mental hygiene, or a course dealing with exceptional children.

2. A college certificate valid for the elementary field may be extended to include any subject of the secondary field by completing eighteen to forty semester hours in a secondary subject, depending upon the area of specialization.

3. A college certificate valid for the secondary field may be extended to include additional academic subjects when the holder has completed eighteen semester hours of approved education in each subject to be added to the certificate.

Certification in Other States

Concerning the requirements for certification for teaching in other states, students should consult the Dean of Academic Affairs.

Teachers in Service

Entrance and college credits based on teaching experience have not been granted since September 1, 1927.

Credit for student teaching other than that done under the direction of the College will not be allowed.

Credit toward entrance or toward graduation with a degree will not be allowed for experience in teaching.

Course Descriptions

DESCRIPTION OF COURSES BY DEPARTMENTS

Not all of the courses listed will be offered in any one semester or year. Whenever the demand warrants the giving of a course, an effort will be made to schedule it. Courses will be offered subject to sufficient enrollment.

ART DEPARTMENT

MR. HALLMAN, *Chairman of the Department*

Mr. McKinney, Miss Simmendinger, Mrs. Ring

Art 101 Fine Arts *3 semester hours*

Staff

This course deals essentially with the history and appreciation of the Fine Arts—painting, sculpture, and architecture. Man's artistic expression from the earliest times to the present, including modern developments in the minor arts, are also surveyed. Both semesters and summer.

Art 201 Arts and Crafts *3 semester hours*

McKinney

A course providing opportunity for creative activity in the arts and crafts. Special emphasis given to camp, playground, or recreational needs. Both semesters and summer.

Art 202 Art for the Elementary Grades *3 semester hours*

McKinney, Simmendinger

This course provides opportunity for the student to develop his powers of self-expression, to gain experience in the use of the fundamental elements and principles of art structure related to two dimensional and three dimensional expression, to establish a basis for an understanding and evaluation of children's work, and to gain a comprehensive knowledge of the school art program. Fall semester, spring semester, summer.

Art 301 Problems in Art Education *3 semester hours*

Hallman

An advanced course designed to develop a basic understanding of the implications of art as an integral part of general education, and to provide opportunity to develop a complete program of art in a school situation. It is intended to aid the elementary teacher to provide better

instruction in art with or without the aid of a supervisor of art. Prerequisites: Art for the Elementary Grades and Teaching Art in Elementary Grades. Fall semester and summer session.

Art 302 Creative Art — Painting *3 semester hours*

Hallman

An elective course which aims to develop expression in drawing, painting, or other art activity. Activities arranged with regard to the individual interests of the student. No prerequisites. Spring, Fall, and Summer.

Art 303 Creative Art — Sculpture *3 semester hours*

This course offers the student an opportunity to develop an individual expression in relation to three dimensional design. The student will have the experience of working in a variety of mediums, such as wood, clay, plaster, and certain metals. The materials are treated experimentally with the aim of achieving creative interpretation. No prerequisites. Elective.

Art 304 Aesthetics *3 semester hours*

This course is directly concerned with theories and philosophies of art, the impact of art on both the individual and the social group with psychological and physical reverberations. Basic influences which preclude the creative process are included in this course. Prerequisite: Fine Arts 101. Elective. Spring.

EDUCATION DEPARTMENT

MR. BENDA, *Chairman of the Department*

Mr. Bonder, Mr. Evans, Mr. Patterson, Mrs. Haas, Miss Gregg, Mr Weagley, Mr. Hill, Miss King, Mr. Bannon, Mr. Studenmund, Mr. Strayer, Mr. Emery, Mr. Micken, Miss DeLong, Mr. Herres, Mr. Freeman, Mr. Buechele, Mr. Krebs, Mr. Schuler.

Edu 100 Professional Orientation *3 semester hours*

Staff

An orientation and guidance course acquainting prospective teachers with the opportunities and requirements of the profession; the relationship of the school to society; the organization and administration of the American school system. Extensive directed observation of various schools and learning situations will be required. Both semesters and summer session.

Psy 250 General Psychology *3 semester hours*

Staff

A comprehensive study of the origins, motives, and modifications of human behavior with emphasis on the scientific approach in analyzing behavior patterns; the importance of man's biological inheritance, and the significance of social environment in influencing human living. Attention is given to the simpler techniques in psychological experimentation. Both semesters and summer session.

Edu 300 Audio-Visual Education *2 semester hours*

Weagley, Strayer

Consideration of the need for sensory techniques and materials in the learning process with attention given to the psychological principles involved. Acquaintance with and achievement of skills in specific techniques, materials, and equipment. Activities will include actual production of materials for classroom use and participation in their use. Both semesters and summer session.

Edu 301 Pre-School Education *3 semester hours*

DeLong, Kulp

Study of pre-school and kindergarten children, of nursery school and kindergarten programs, materials, equipment and procedures, records and reports. Laboratory school experiences supplement reading and discussion of acceptable standards and teaching practices. Both semesters and summer session.

Edu 302 Problems of Secondary Education Including Guidance *3 semester hours*

Bonder, Buechele

This course is designed to acquaint students, who are preparing to teach on the secondary level, with the basic problems and responsibilities found within the framework of a secondary school. The course includes some phase of guidance. Consideration is given to the essentials and principles of a guidance program and the role the teacher is expected to play within the overall guidance organization. Both semesters.

Edu 303 Creativity in the Classroom *3 semester hours*

Herres

A course dealng with the exploration of materials and processes of children's perceptions and behavior with a view to encouraging the development of their critical and creative potentials.

Edu 306 Introduction to Guidance and Counselling *3 semester hours*

Hill, Recktenwald, Williams

A study of the techniques for analyzing the interests, aptitudes, and abilities of children and the methods for guiding them in making sound vocational choices.

Information will be gathered and studies made regarding a wide variety of occupational and professional areas. Both semesters and summer session.

Edu 307 Diagnostic and Remedial Reading *3 semester hours*

Patterson, Kulp, Herres

Recent research in the field of reading to acquaint students with problems and needs common to incompetent readers and with the most successful materials and techniques for dealing with such problems. Demonstration and practice in testing, planning, and directing remedial programs with groups and individuals. Prerequisite: Teaching of Reading. Spring semester and summer session.

Edu 309 Language Arts *6 semester hours*

Haas, Herres

Preparation of teachers for the development of the child's abilities in oral and written communication. Provides knowledge of the nature of reading processes and materials of instruction. Essential techniques and materials of language, including handwriting and spelling, to teach the child knowledge and skills in the fundamentals of oral and written communications. Both semesters and summer.

Edu 310 School and Community *3 semester hours*

Studenmund

Study of group and intergroup activities and the role of the individual in the group; of community interests, needs, resources and problems; of teacher responsibility in community activities; professional, social, civic, religious, and political. Student participation in community activities is stressed. Spring semester and summer session.

Edu 317 Teaching of Language Arts *3 semester hours*

King, Herres, Haas

Survey of the content of the curriculum in English in the elementary grades; methods of teaching oral and written composition, principles of grammar, poetry, and literature. The teaching of handwriting is part of this course. Summer session.

Edu 318 Reading in the Secondary School *3 semester hours*

Staff

A basic course for teachers of reading on the secondary school level. Special help is given in the basic reading and study skills and the techniques for improving rate and comprehension. The course is planned to help the teacher provide a development reading program with respect to content subject matter. Prerequisites: Educational Psychology. Summer session only.

Edu 319 Teaching of Reading *3 semester hours*

Patterson, Haas, Kulp

Scientific aspects of reading and problems in the teaching of reading in all elementary grades. Presentation in theory and practice, from careful examination of research and from observation. Opportunity for the student to acquaint himself with a variety of modern reading materials and with approved techniques in their use. Problems of disability and their treatment. Both semesters and summer session.

Edu 320 Teaching of Reading in Secondary School Academic Subjects *2 semester hours*

Patterson, Staff

This course is designed to enable secondary school teachers to understand and to cope with the wide range of high school pupils' needs and abilities and to provide experiences and instruction in the development of materials, methods and techniques, and skills in meeting the requirements of systematic, sequential, and coordinated reading programs. It is a practical course in which the students experience the uses of a wide variety of structured exercises prepared to improve one's vocabulary, study habits, reading comprehension, and other skills in reading, and in which students construct such exercises for use in teaching. Both semesters and summer.

Ed. 330. Teaching the Exceptional Child *3 semester hours*

Freeman

The study of atypical children who need help in order to adjust and succeed to the extent of their capacity. Students are guided in recognizing, understanding and dealing with the additional needs of the physically or mentally handicapped child and the superior child, and in fostering their social and emotional development. Attention is directed to the selection of learning aids and materials and the adaptation of teaching techniques in the normal classroom situation. Prerequisite: General Psychology. Both semesters and summer session.

Edu 350 Educational Psychology *3 semester hours*

Staff

The nature of the learning process with emphasis on the application of the principles of psychology to the problems of learning and teaching. An important aspect of the course is the study of actual classroom problems and procedures by observation of regular work and by special illustrative demonstrations in the laboratory school. Prerequisite: General Psychology. Both semesters and summer session.

Psy 351 Human Development (Childhood) *3 semester hours*

King

Three main strands comprise this course: methods of studying children and observation of children in various situations; aspects of growth in childhood (physical, mental, emotional, and social) and their interrelationship; and characteristic development and behavior at various age levels from birth to adolescence. Both semesters and summer sessions.

Psy 352 Human Development (Adolescence) *3 semester hours*

Benda, Gregg, Hill

This course is concerned with a practical understanding of personality development, maturation, and problems of the adolescent. Attention is given to the inter-relationship of physical, emotional, and social growth within the context of such social institutions as the home, school, and community. Prerequisite: General Psychology. Fall, spring, and summer sessions.

Edu 353 Child Adjustment *3 semester hours*

King, Micken

Application of the principles of mental hygiene to the problems of elementary school children in home, school and community. Emphasis is directed toward an understanding of the causative factors in children's behavior, an intensive study of emotional development, and a critical analysis of typical classroom situations. Summer session.

Psy 370 Mental Hygiene *3 semester hours*

Studenmund

This course attempts to analyze the individual from several standpoints according to the principles of mental hygiene. The practical phase of the course is the application of these principles to the individual's problems of adjustment to the school and society. Field trips are also included in the course content. Fall semester and summer session.

McCARTHY HALL — WOMEN'S DORMITORY

Phi 380 Ethics *3 semester hours*

Benda

The course in ethics is concerned with the development of principles of right conduct and practical systems of social morality. It has to do with the human values and the development of moral standards both for the individual and society. Basically it seeks answers to such moral problems as the following: What conduct shall we choose and from what shall we refrain? What shall we fight for and what against? The methods used will involve lectures, discussions, readings, and reports. Spring semester and summer session.

Edu 401 Problems of Elementary Education *3 semester hours*

Haas, Herres

This course deals with the educative process as a functional relationship between the learner and his environment aided by organized learning situations. An attempt is made to draw together all the methods in terms of basic curriculum principles for the modern elementary school. The prospective teacher is introduced to the scope of the teacher's day-to-day responsibilities and helped to develop insight into how these responsibilities can be carried out effectively. Both semesters and summer.

Edu 411 Student Teaching and Direction of Student Activities (Elem. Majors) *12 semester hours*

Edu 412 Student Teaching and Direction of Student Activities (Sec. Majors)

Supervisors

Observation and participation in all teaching and activities related to the performance of a teacher's work, in the area of the student's specialization. Both semesters and summer session.

Edu 413 Professional Practicum Including School Law (Elem. Majors) *2 semester hours*

Edu 414 Professional Practicum Including School Law (Sec. Majors) *2 semester hours*

Supervisors of Student Teaching

Methods and practices of teaching; general techniques of teaching and techniques for the students' special fields; Pennsylvania school laws revelant to the work of the classroom teacher; problems encountered by the students in their student teaching. Both semesters and summer session.

Edu 441 Workshop in Elementary Education *4 semester hours*

Evans, Cartright

A course designed for college graduates and teachers-in-service. Newer ideas and practices in teaching are evaluated. Materials of instruction and courses of study are examined. Opportunity is given enrolees to work on individual and group problems. Children are observed in the Campus Demonstration School. Course is offered in the regular summer session only.

Edu 451 Tests and Measurements in Guidance *3 semester hours*

Hill and Staff

A survey of testing materials and procedures with emphasis on the interpretation and application of results for pupil guidance purposes. Areas studied will include examination of various types of testing materials, criteria for selection, techniques for summarizing data, organization, administration, and evaluation of the testing program. Prerequisite: General Psychology. Both semesters and summer session.

Phi 480 Introduction to Philosophy *3 semester hours*

Bonder, Bannon, Schuler, Strayer

This course is divided into three distinct categories; (1) a discussion of the meanings and implications of the outstanding philosophies, (2) a comparative analysis of the corresponding works of philosophers, and (3) a discussion of the relation between philosophy and modern life with the ultimate aim that each student will develop a personal overall philosophy. Both semesters and summer.

Psy 341 Psychology of Exceptional Children *3 credits*

Freeman

Psychology of children having superior or inferior intellectual ability; defective vision, hearing and speech; emotional, social and physical handicaps. Spring semester.

SpE 342 Arts and Crafts for Atypical Children *2 credits*

McKinney, Ring

A course designed to give the students background in the creative art process and how it can be developed in the atypical child. Students participate in field trips and art activities specifically designed for both the mentally retarded and the physically handicapped child. Spring semester.

Psy 343 Psychology of the Mentally Retarded *3 credits*

Freeman

A survey of the psychological development of mentally retarded children with special emphasis on socio-economic, cultural, emotional and educational factors which influence their behavior. Fall semester.

SpE 344 Problems in Special Education *2 credits*

Freeman

A study of significant problems in the field of Special Edcuation. Topics for special study include: articulation of primary and secondary programs; interpretation of special education program to parents, school personnel, and the community; development of community resources to meet the need of atypical children; selection of pupils and problems of organization. Spring semester.

SpE 348 Methods and Materials for Mentally Retarded *3 credits*

Freeman

Course dealing with the effective methods of teaching mentally retarded children, the development of programs of study, classroom techniques, adaptation of materials and appraisal of results. Both semesters.

SpE 349 Methods and Materials for Physically Handicapped *3 credits*

Freeman

A course dealing with the effective methods of teaching physically handicapped children, the development of programs of study, adaptation of materials and appraisal of results. Both semesters.

Sp. Ed. 340. Workshop in Special Education *6 credits*

Freeman

The Workshop will provide an opportunity to undertake an intensive program of observation and instruction of mentally retarded or physically handicapped children. Actual instructional experience with an atypical child will be combined with lecture, demonstration and case study. Summer session.

ENGLISH DEPARTMENT

MR. SLAGLE, *Chairman*

MR. BINNEY, *Vice-Chairman*

Miss Bailey, Mr. Baron, Mr. Berry, Mr. Binney, Mr. Bruehl, Mr. Clokey, Mrs. Faucett, Mr. Gray, Mr. Gross, Mr. Henry, Miss Holman, Miss Jacobs, Miss Jordan, Mr. Landrum, Mrs. Lustig, Mr. McKenty, Mr. Peterson, Mr. Thomas, Mr. Ward.

English Composition

Eng 101 English I — Grammar and Composition *3 semester hours*

Binney, Director: Members of the Department

Review of grammar detail, analysis of construction, functional practice in mechanics of English; vocabulary study and spelling. The writing and analysis of brief compositions for structural faults and errors in diction. Library usage. a separate unit in addition to English I—an introduction to the use of the library—taught by a member of the college library staff. Both semesters and summer session.

Eng 102 English II — Composition *3 semester hours*

Binney, Director: Members of the Department

Study and application of the laws of composition; methods and types of exposition; description and narration; paragraph and theme writing; analysis of literary samples; book reviewing; outlining; detailed study of techniques of research and the writing of an original research paper. Continued functional practice in mechanics. Prerequisite: English I. Both semesters and summer session.

Eng 103 Speech *3 semester hours*

Holman, Peterson, Directors: Members of the Department

Study and application of fundamental principles of effective speaking; training in selection, organization, and development of material suitable for speeches; analysis of voice; emphasis on personality adjustment as related to speaking-listening situations; and vocabulary building. Special emphasis also given to group discussion and parliamentary procedures. Both semesters.

Eng 211 Journalism *3 semester hours*

Berry

The organization, management, and supervision of the content of

school publications; the preparation of school publicity materials and the development of journalistic style through practical participation in journalistic activities. Fall semesters.

Eng 312 Advanced Composition *3 semester hours*

Binney

Advanced experience in writing through the preparation of reviews, digests, and critical reports, employing expository, descriptive, and argumentative techniques. Spring semester of odd and even years.

Eng 313 Creative Writing *3 semester hours*

Binney

An advanced course for students of marked ability in the creative processes of writing. The development of creative ability, the improvement of the student's own style, and the furnishing of methods and materials for the teaching of composition in the secondary schools. Spring semester of odd years.

Eng 314 History of Language *3 semester hours*

Clokey

A review of the major forces and influences which have shaped language development with emphasis on the history of the English language. Fall semesters.

Eng 315 Advanced Grammar *3 semester hours*

Clokey

A study of the role and development of English grammar including a survey of the linguistic influences on the traditional approach to this discipline. Spring semesters.

Eng 316 Teaching English in Secondary Schools *3 semester hours*

Bailey, Slagle

A review of the content of language-arts requirements of the secondary school, with special reference to grade-placement with adaptation of materials, appraisal of results, and the development of programs of study. Each semester.

Literature

Eng 221 General Literature I *3 semester hours*

Landrum, Director: Members of the Department

An introduction to literature providing opportunities for intensive reading in a wide variety of literary figures. The purpose is to familiarize students with the development of human thought as it has been expressed in Western literature from Homer to Shakespeare. Fall semester.

Eng 222 General Literature II *3 semester hours*

Landrum, Director: Members of the Department

Milton to the present. Spring semesters.

Eng 223 American Literature I *3 semester hours*

Bailey, Berry

A survey of representative American writings from Colonial times to 1860, particular attention being given those writings which best exemplify democratic ideals and national character. Fall semesters.

Eng 224 American Literature II *3 semester hours*

Bailey, Berry

A survey of representative American writings from 1860 to the present. Spring semester.

Eng 225 English Literature I *3 semester hours*

Slagle, Thomas

English literature surveyed from Anglo-Saxon times to Robert Burns, with emphasis on recognized major works. Two basic aims: (1) to develop broader knowledge of the growth of English literature and its relation to historical movements, and (2) to provide wide reading for more intelligent appreciation. Fall semesters.

Eng 331 Chaucer *3 semester hours*

Thomas

The course is concerned with the **Canterbury Tales**, **Troilus** and **Creseyde**, and selected poetry; emphasis is upon literary interpretation rather than language. Spring semester of even years.

Eng 332 English Drama to the Renaissance *3 semester hours*

Baron, Jordan

A study of the drama in England from the early liturgical tropes to Shakespeare's contemporaries. Spring semester of even years.

Eng 333 Shakespeare I *3 semester hours*

Baron

A study of selected comedies, histories and tragedies with emphasis on literary and historical background and on Shakespeare's development as a dramatist. Fall semester of odd years.

Eng 334 Shakespeare II *3 semester hours*

Baron

A continuation of the first semester. Spring semester of odd years.

Eng 335 Eighteenth Century Literature *3 semester hours*

Slagle

A critical consideration of significant eighteenth-century writers with emphasis upon the struggle between tradition and revolt as reflected in the works of the representative writers of the period. Spring semester of odd years.

Eng 336 The Romantic Movement *3 semester hours*

Clokey, Lustig

A study of Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries in the light of social background and biographical and critical doctrine. Fall semester of even years.

Eng 337 Victorian Prose *3 semester hours*

Bailey, Thomas

A study of Victorian thought and culture as the reflection of conflict and compromise through its interpretations by the prose writers of the period. Special reference is made to the work of Ruskin, Newman, Mill, Huxley, and Arnold. Fall semester of odd years.

Eng 338 Victorian Poetry *3 semester hours*

Gross, Bailey, Thomas

A study of Victorian thought and culture as seen in the poets of the period. Spring semester of odd years.

Eng 339 Tudor Literature

Baron, Jordan

Tudor Literature, a study of the poetry and prose of the Sixteenth Century with special emphasis on the literary and historical background. First semester of even years.

Eng 226 English Literature II *3 semester hours*

Slagle, Thomas

English literature surveyed from Robert Burns to the present. Spring semesters.

Eng 327 American Poetry *3 semester hours*

Binney

An examination of the nature, form, and function of verse as exemplified by representative American poets, with particular reference to social backgrounds and national ideals. Spring semester of even years.

Eng 328 American Prose *3 semester hours*

Bailey, Thomas

A study of the development of national ideals as expressed by representative prose masterpieces, with extensive critical reading in current periodicals as well as intensive study of great works of the past. Fall semester of even years.

Eng 329 Classical Mythology *1 semester hour*

Bailey, Jordan

A study of the literature and mythology. Spring semester of odd years.

Eng 330 Medieval Literature in England *3 semester hours*

Jordan

Medieval English Literature (1066-1500). A survey of literature from the Norman conquest to the accession of the Tudors, emphasizing the popular forms: lyric, romance, metrical tale, fabliaux, and ballad.

Eng 340 Stuart Literature (1603-1700) *3 semester hours*

Jordan, Lustig

A survey of British literature from the accession of James I to the death of Dryden, giving an introduction to the Spenserians, the Metaphysical poets, John Milton, the Restoration dramatists, and such pop-

ular literary forms as the essay, biography, the sermon, translation, literary criticism, satire, and travel literature. Spring semester of even years.

Eng 341 Novel to 1870 *3 semester hours*
Bailey

A study of the rise and development of the novel in English from its predecessors of the eighteenth century to Hardy and Mark Twain. The reading of a selected list of novels for analysis with a view to cultivating an appreciation of this dominant literary form. Fall semester of odd years.

Eng 342 Contemporary Novel *3 semester hours*
Landrum, Lustig

A study of modern and contemporary movements in fiction, based on the critical reading and analysis of English and American novels published since 1870. Spring semester of odd years.

Eng 343 Contemporary Poetry *3 semester hours*
Binney

An examination of representatve poetry published since 1870 in both England and America and a study of forms, aspects, and tendencies in contemporary verse, with particular reference to poetry as a criticism of modern life. Fall semester of even years.

Eng 344 Modern Drama *3 semester hours*
Bruehl, Henry

A comprehensive view of the best dramatic literature of modern European, American, and British theatre since 1890 presented through lectures, discussions, and experiences related to the contemporary stage. Spring semester of even years.

Eng 345 Criticism *3 semester hours*
Binney

An historical study of literary criticism and aesthetic theory, with emphasis upon romanticism and classicism of critical canon. Spring semester of even years.

Eng 346 Essay *3 semester hours*
Berry, Binney

A study of the history and development of the essay as a distinctive literary form, together with readings in current periodical non-fiction, and provision for opportunities for self-expression through writing. Spring semester of odd years.

Eng 347 Literature of Biography *3 semester hours*
Binney, Bailey

A study of the historical development of biographical writing with readings from Plutarch, Boswell, Carlyle, Macaulay, Strachey, Bradford, Ludwig and standard contemporary biographers. Fall semester of odd years.

Eng 348 Short Story *3 semester hours*
Clokey, Thomas

A study of the development of the short story as a distinct and popular current literary form through its history and technique. The investigation of recent tendencies and the encouragement of wide readings in current periodicals. Fall semester of even years.

Eng 349 Bible as Literature *3 semester hours*
Slagle

A study of the books of the English Bible, especially the King James Version, as they have become a part of English and American Literature and of the cultural heritage of the English speaking people.

Eng 350 Children's Literature *3 semester hours*
Faucett

An introduction to important children's books, old and new, and to techniques for presentation of book material, the encouragement of wide reading of juvenile literature and provision of criteria for and experience in the evaluation of children's books. Fall semesters.

Eng 351 Creative Writing for Elementary Grades *3 semester hours*
Faucett

Practice in writing forms used in elementary grades: juvenile poems, stories, sketches, playlets, and material for group programs. A study of the role of such material in the elementary classroom. Spring semester of even years.

Eng 352 Dramatics in the Elementary Grades *3 semester hours*
Bruehl

Theory, technique, and practice of theatre production in grades one through eight; emphasis upon creating, rehearsing, and staging various types and styles of theatre for children. Lectures, discussions, visits to classrooms and theatre presentations. Practical experience and observation in the children's play presented annually by the college theatre. Spring semester.

Eng 353 Speech Problems *3 semester hours*
Holman, Peterson

A survey course introducing students to the various speech problems common to children in the public schools. Emphasis is placed upon the theory of the symptoms, cause, and remedial treatments used by the classroom teacher in improving the speech of all children. Each semester.

Eng 354 Choral Speaking *3 semester hours*
Holman, Peterson

A course aiming, through the communal voicing of poetry, to stimulate appreciation, interpretation, and artistic expression of poetry; to

demonstrate the educational and social value of unison speech; and to train choral leaders in the techniques of choir conducting and in the selection and treatment of materials. Spring semester of even years.

Eng 355 Principles of Directing *3 semester hours*
Bruehl

A basic course covering the relationship of the director to the play, how this relationship has evolved over the centuries, modern theoretical principles of direction, and the practical application of these principles. Spring semester of odd years.

Eng 356 Little Theatre Workshop
1/2 semester hour per semester
Bruehl

Students enroll for work on the major productions of the Little Theatre. Credit given for satisfactory work in acting or production or both, as arranged. May be repeated each semester. Note: open to any student regardless of year or previous theatre experience. Students not enrolled formally are permitted to work in the theatre program without credit.

ThA 201 Principles of Acting *3 semester hours*
Bruehl

An explanation of recent developments in acting style and methods together with application of these various techniques in practice.

ThA 202 The Art of Play Production *3 semester hours*
Bruehl

A basic course covering the relationship of the director to the play, how this relationship has evolved over the centuries, modern theoretical principles of direction, and the practical application of these principles.

ThA 203 Principles of Stagecraft, Lighting, and Sound
3 semester hours
Bruehl

An examination in theory and practice of the various techniques available for solving the physical problems involved in mounting a dramatic presentation.

ThA 303 History of the Drama and Theatre I
3 semester hours
Bruehl

An investigation of the theatre as an art form from its earliest beginnings in both Oriental and Western Culture.

ThA 304 History of the Drama and Theatre II
3 semester hours
Bruehl

A continuation of the first semester.

FOREIGN LANGUAGE DEPARTMENT

MR. ROBERTS, *Chairman of the Department*

Mr. Frieman, Mr. Kulhanek, Mr. Lombardi

French

Fre 101 Elementary French I *3 semester hours*

Roberts and Staff

A study of the fundamentals of French grammar, syntax, and pronunciation. Introduction to French culture through easy reading texts. Fall semester.

Fre 102 Elementary French II *3 semester hours*

Roberts and Staff

A continuation of French 101 with increased emphasis on reading and conversation in French. Spring semester.

Fre 103 Intermediate French I *3 semester hours*

Roberts

An intensive review of grammar and syntax. Selected readings in French literature to serve as a basis for class discussion in French and practice in composition. Prerequisite: Fr. 102 or equivalent.

Fre 104 Intermediate French II *3 semester hours*

Roberts

A continuation of French 103 with more extensive practice in composition and conversation.

Fre 201 Survey of Literature I *3 semester hours*

Roberts

A study of the development of French literature and civilization from their earliest beginnings to the French Revolution. Prerequisite: Fr. 104 or equivalent.

Fre 202 Survey of Literature II *3 semester hours*

Roberts

A study of the development of French literature and civilization from the French Revolution to the present. Prerequisite: Fr. 104 or equivalent.

Fre 301 Advanced Language and Techniques *3 semester hours*

Roberts

An introduction to the problems, methods and materials involved in the teaching of French. Prerequisite: Fre 104 or the equivalent.

Fre 302 Advanced Oral French *3 semester hours*

Roberts

An intensive analysis of the sounds of French and extensive practice in oral expression aimed at developing a command of spoken French. Prerequisite: Fre 104 or the equivalent.

***Fre 401 French Literature of the 18th Century** *3 semester hours*

Roberts

A study of the evolution of the various literary genres in France in the 18th century with particular attention to the works of Volaire, Rousseau, Montesquieu and Diderot. Prerequisite: Fre 201.

***Fre 402 French Literature of the 19th Century** *3 semester hours*

Roberts

A study of the development of the various literary movements of the nineteenth century as manifested in the poetry, drama and novel of the period. Prerequisite: Fre 202.

***Fre 403 Contemporary French Literature** *3 semester hours*

Roberts

A study of the works of the outstanding literary figures of the twentieth century and of the various philosophico-esthetic movements which have contributed to their development. Prerequisite: Fre 202.

***Fre 404 French Classical Drama** *3 semester hours*

Roberts

A study of the masterpieces of Corneille, Racine and Moliere. Prerequisite: Fre 201.

---

*French 401 and 402 alternate with French 403 and 404.
French 403 and 404 will not be offered in 1963-64.

Spanish

Spa 101 Elementary Spa I *3 semester hours*

Lombardi

A study of the fundamentals of Spanish grammar, syntax and pronunciation. Introduction to Spanish culture through easy reading texts.

Spa 102 Elementary Spanish II *3 semester hours*

Lombardi

A continuation of Spanish 101 with emphasis on reading and conversation in Spanish.

Spa 103 Intermediate Spanish I *3 semester hours*

Lombardi

A review of Spanish grammar and syntax. Selected readings in Spanish literature to serve as a basis for class discussion in Spanish and practice in composition. Prerequisite: Spa 102 or equivalent.

Spa 104 Intermediate Spanish II *3 semester hours*

Lombardi

A continuation of Spanish 103 with more extensive practice in composition and conversation.

Spa 201 Survey of Literature (Golden Age) *3 semester hours*

Lombardi

A study of the masterpieces of Spanish literature from its earliest beginnings to the 18th century with special emphasis on the literature of the Golden Age. Prerequisite: Spa 104 or the equivalent.

Spa 202 Survey of Literature ((Since 1800) *3 semester hours*

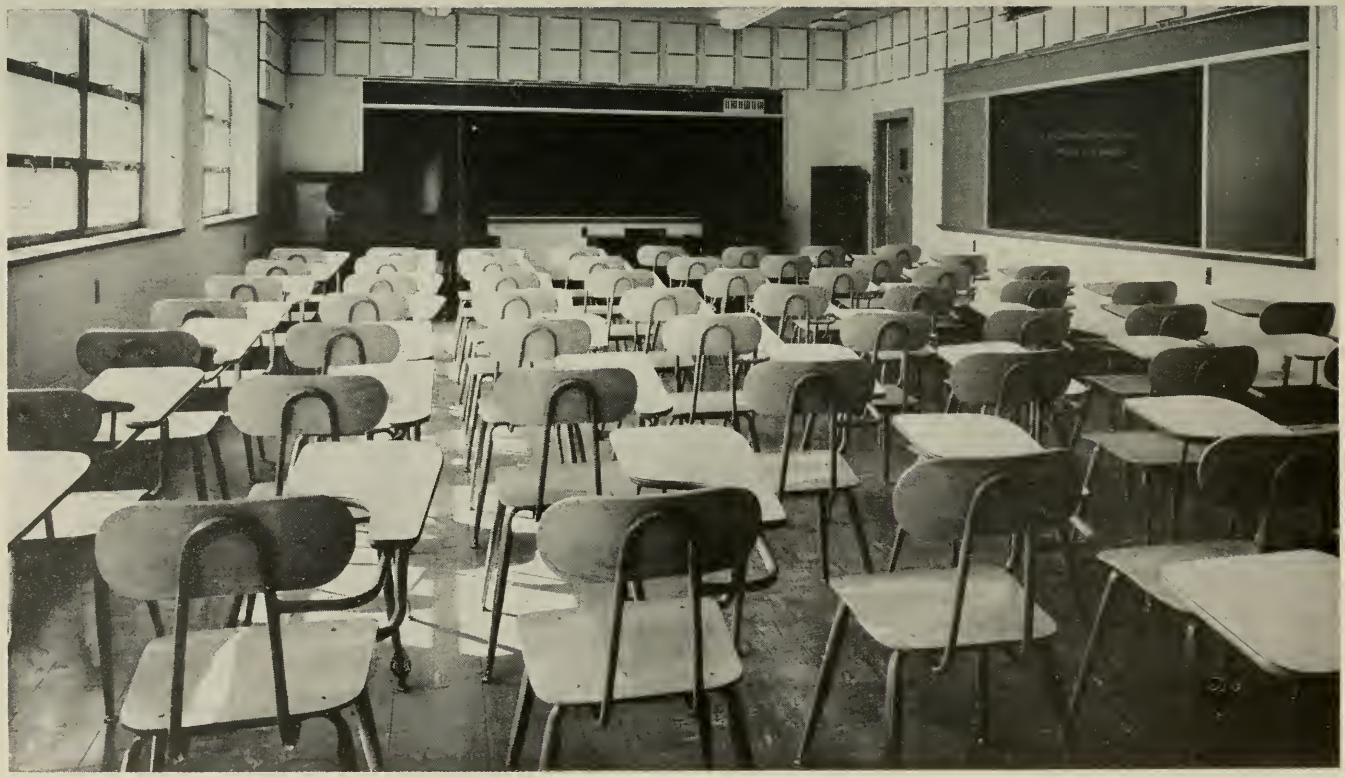
Lombardi

A study of the masterpieces of Spanish Literature from 1800 to the present. Prerequisite: Spa 104 or the equivalent.

Spa 301 Advanced Language and Techniques *3 semester hours*

Roberts and Staff

An introduction to the problems, methods and materials involved in the teaching of Spanish. Prerequisite: Spa 104 or the equivalent.



CLASSROOM — SWOPE HALL

Spa 302 Advanced Oral Spanish *3 semester hours*

Lombardi

An intensive analysis of the sounds of Spanish and extensive practice in oral expression aimed at developing a command of spoken Spanish. Prerequisite: Spa 104 or the equivalent.

Spa 401 Spanish-American Literature *3 semester hours*

Lombardi

An examination of the masterpieces of Spanish-American Literature and of the present trends in Spanish-American literary expression. Prerequisite: Spa 104 or the equivalent.

Spa 402 Contemporary Spanish Literature *3 semester hours*

Staff

A study of the masterpieces of contemporary Spanish literature against the background of 20th century literary trends. Prerequisite: Sp. 104 or the equivalent.

German

Ger 101 Elementary German I *3 semester hours*

Kulhanek

A study of the fundamentals of German grammar, syntax and pronunciation. Introduction to German culture through easy reading texts.

Ger 102 Elementary German II *3 semester hours*

Kulhanek

A continuation of German 101 with increased emphasis on reading and conversation in German.

Ger 103 Intermediate German I *3 semester hours*

Kulhanek

A review of grammar and syntax. Selected readings in German literature to serve as a basis for class discussion in German and practice in composition. Prerequisite: Ger. 102 or the equivalent.

Ger 104 Intermediate German II *3 semester hours*

Kulhanek

A continuation of German 103 with more extensive practice in composition and conversation.

Ger 201 Advanced Readings in German Literature *3 semester hours*

Kulhanek

A study of selected masterpieces of German literature in preparation for the reading of "Faust." Prerequisite: Ger. 104 or the equivalent.

Ger 202 Goethe *3 semester hours*

Kulhanek

A reading and discussion of Goethe's "Faust" and a study of the author's background and literary development. Prerequisite: Ger. 201.

Ger 301 Advanced Language and Techniques *3 semester hours*

Staff

An introduction to the problems, methods and materials involved in the teaching of German. Prerequisite: Ger. 104 or the equivalent.

Ger 302 Advanced Oral German *3 semester hours*

Kulhanek

An intensive analysis of the sounds of German and extensive practice in oral expression aimed at developing a command of spoken German. Prerequisite: Ger. 104 or the equivalent.

Ger 401 German Literature of the Classical Period *3 semester hours*

Kulhanek

A study of German literary doctrines and masterpieces of the classical period with particular emphasis on Schiller. Prerequisite: Ger. 104 or the equivalent.

Ger 402 Contemporary German Literature *3 semester hours*

Kulhanek

A study of the works of the principal German writers of the 20th century and of the background of events and ideas which have contributed to their development. Prerequisite: Ger. 104 or the equivalent.

Russian

Rus 101 Beginning Russian I *3 semester hours*

Kulhanek

A study of the fundamentals of Russian grammar, syntax and pronunciation.

Rus 102 Beginning Russian II *3 semester hours*

Kulhanek

A continuation of Russian 101 with increased emphasis on reading and conversation in Russian.

Rus 103 Intermediate Russian I *3 semester hours*

Kulhanek

A grammar review with selected readings in Russian literature to serve as a basis for class discussion in Russian and practice in composition. Prerequisite: Russ. 102 or the equivalent.

Rus 104 Intermediate Russian II *3 semester hours*

Kulhanek

A continuation of Russ. 103 with more extensive practice in composition and conversation.

Latin

Lat 101 Beginning Latin I *3 semester hours*

Frieman

For students who have had no previous Latin. Forms, syntax, and idioms of classical Latin. Selected readings.

Lat 102 Beginning Latin II *3 semester hours*

Frieman

A continuation of Latin 101.

Lat 201 Cicero *3 semester hours*

Frieman

Prerequisite: Latin 101-102, or two years of secondary school Latin. Selections from the orations, letters, and essays.

Lat 202 Virgil *3 semester hours*

Frieman

Prerequisite: Latin 201, or three years of secondary school Latin. Reading and analysis of celebrated portions of the **Aeneid** and a study of the nature of Latin epic poety.

Prerequisite to courses 301-405: Latin 202, or four years of secondary school Latin.

Lat 301 Roman Historians *3 semester hours*

Frieman

Portions of Livy, Tacitus, and Suetonius.

Lat 302 The Lyric Poets *3 semester hours*

Frieman

Readings in Catullus and the Odes and Epodes of Horace.

Lat 303 Latin Prose Composition *3 semester hours*

Frieman

Translations of English prose into classical Latin.

Lat 304 The Elegiac Poets *3 semester hours*

Frieman

A study of Latin elegaic poetry through readings in Ovid, Propertius, and Tibullus.

Lat 401 Roman Drama *3 semester hours*

Frieman

Selected plays of Plautus, Terence, and Seneca. A study of Roman drama, its origins and development.

Lat 402 Roman Philosophy *3 semester hours*

Frieman

Cicero, **Tusculan Disputations;** Lucretius, **De Rerum Natura.** Cicero presents mainly the Platonic view; Lucretius argues in epic verse for Epicurus' creed.

Lat 403 Roman Satire *3 semester hours*

Frieman

Readings in Horace, Juvenal, and Persius.

Lat 404 The Latin Novel *3 semester hours*

Frieman

Readings in Petronius,**Satyricon,** and Apuleius, **The Golden Ass.** Lectures and discussion of the emergence of the novel as a literary form.

Lat 405 Tutorial Course *3 semester hours*

Frieman

Required of majors in Latin; open to other students accepted by the instructor. An introduction to the history of the alphabet; the principles of comparative linguistics, especially as applied to Latin; and the history of the language as seen in passages from ancient authors.

Greek

Gre 101 Beginning Greek I *3 semester hours*

Frieman

For students who have had no previous Greek. Forms, syntax and idioms of classical Latin.

Gre 102 Beginning Greek II *3 semester hours*

Frieman

A continuation of Greek 101.

GEOGRAPHY DEPARTMENT

MR. KEINARD, *Chairman of the Department*

Mr. Hawthorne, Mr. Langdon, Mr. Bielski

Geo 101 World Geography *3 semester hours*

Staff

A course to develop a knowledge and appreciation of patterns of the natural environment throughout the world such as patterns of climate, soil, vegetation, and man's adjustment to them, with special emphasis upon man's economic and cultural responses. Both semesters and summer session.

Geo 102 Geography of the United States and Pennsylvania *3 semester hours*

Keinard and staff

A comprehensive treatment of the adjustment of the people of Pennsylvania and the United States to the physical factors—structure, relief, climate, vegetation, soils, and natural resources—which help to explain the distribution of population, land use, products, and trade within the United States and with other parts of the world. Prerequisite: World Geography. Spring and summer session.

Geo 201 Conservation of Natural Resources *3 semester hours*

Langdon

A course dealing with the present problems in the conservation of our natural resources of land, water, plant, animal life, and mineral deposits, ways of solving these problems, and the wise use of these resources. Spring semester.

Geo 202 Geography of United States and Canada

3 semester hours

Keinard and staff

A regional study of the United States and Canada relative to man's adjustments to his environment as determined by the physical factors of climate, vegetation, relief, and soils. Recognition of the political adjustments to the geographic environments and the interrelations between the two countries and the rest of the world. Prerequisite: World Geography. Fall semester.

Geo 203 Economic Geography

3 semester hours

Hawthorne

The increasing competition for the world's goods in relation to the growing world population and changing political climate of certain areas is discussed. The course also deals with modern trends and problems associated with the economic growth of the United States. Every effort is made to keep up with the changing wants and needs of man in regards to agriculture, industry, and world resources.

Geo 204 Geography of Pennsylvania

3 semester hours

Langdon

A regional study of Pennsylvania, emphasizing man's cultural and economic responses to environmental factors. Special attention is given to the resources of the state, analyzing their extent, their use, and need for their conservation and regional planning. Spring semester of even years and summer sessions.

Geo 205 Physiography

3 semester hours

Keinard

The course involves the study of the dynamic tectonic and gradational forces, which in conjunction with the climatic and biologic forces have shaped the earth into its present form and are constantly reshaping and modifying it. The constructive forces of vulcanism and diastrophism and the activities of weathering and erosion in the formation of the surface features of the earth are considered. The interpretation of geologic and topographic mays, as well as field studies are an important part of the course. Field trips are required. Prerequisite: World Geography. Fall semester of even years and summer sessions.

Geo 206 Meteorology

3 semester hours

Keinard

Meteorology is a study of the atmosphere. This course analyzes the laws and underlying principals of atmospheric changes. An opportunity is given for students to become familiar with common weather instru-

ments, to read and interpret weather maps, to observe and record weather data, and discuss problems rising from the use of the atmosphere as a medium of travel and transportation. Prerequisite: World Geography. Spring semester of even years.

Geo 207 Geography of Europe *3 semester hours*

Bielski

A course which aims to help students acquire an ability to look for, find, and apply the geographic relationships underlying land uses, dominant international problems, and boundary disputes, thus enabling students to obtain an unbiased understanding of the economic problems of Europe. The Soviet Union is not included in this course. Prerequisite: World Geography. Spring semester.

Geo 208 Geography of Latin America *3 semester hours*

Langdon

A regional study is made of Middle and South America, emphasizing man's responses to environmental factors such as climate, landforms, resources and the like. Special emphasis is given to regional differences and similarities. Latin American relations with other nations, especially with the United States, are stressed. Prerequisite: World Geography. Fall semester.

Geo 209 The United States in Its Global Relationships *3 semester hours*

Bielski

This course deals with the changing economic patterns within the United States that are developing to meet the new economic and strategic situations in the rest of the world. The geography of the United States will be analyzed in its world relations with emphasis on our interdependence with the world of nations, both politically and economically. Fall semester of odd years.

Geo 210 Geographic Influences in American History *3 semester hours*

Hawthorne

A study of the relationships of the natural geographic factors in the settlement, development and progress of the United States from the time of discovery to its present day position as a world power. Major emphasis is placed upon the United States, although parts of the course such as the study of World War II and our present worldwide interests and commitments of necessity focus attention on areas other than the U.S. Prerequisite: World Geography.

Geo 301 Geology *3 semester hours*

Keinard

A course dealing with landscapes in their relation to the structure of the earth's crust, and the work of earth forces and their effects on mater-

ials, structure, and physiography of the earth's surface features. Course work includes field work, study of rocks, minerals, and topographic maps. Field trips are required. Fall semester of odd years and summer session.

Geo 302 Climatology *3 semester hours*

Keinard

A course primarily concerned with the climatic regions of the earth, and the limitations and advantages they offer for man's occupancy. The course is a valuable aid to students in world problems. Prerequisite: World Geography. Spring semester of odd years.

Geo 303 Cartography *3 semester hours*

Bielski

A course designed primarily to enable the geography major to attain proficiency in the construction and use of maps, cartograms, and geographic diagrams. The history of map making with special emphasis on the modern techniques followed in the United States will be presented. Special emphasis will be placed upon the development of the special purpose or thematic map as a tool in teaching and research. This emphasis requires proper instruction in the use of pens, lettering templates, pre-printed patterns and letters, and other techniques utilized in map construction.

Geo 304 Geography of Asia *3 semester hours*

Hawthorne

This course starts with an over-view of Asia in regards to climate, topography, soils, people, and other such basic geographic factors. Emphasis is placed on major geographic regions of the Soviet Union in Asia, Southwestern Asia, and India. Studies are made of the natural resources and their use, the peoples — their number and distribution, their cultural and recent cultural changes, strategic areas, and related political problems. Fall semester of odd years.

Geo 305 Geography of the Far East *3 semester hours*

Hawthorne

A study of Japan, China, the Philippines, Southeastern Asia, and the East Indies and an intensive investigation of the natural factors and man's adjustment to them in the geographic, economic, and political regions of Eastern Asia. The geographic background needed in planning solutions for raising standards of living, for the wise use and restoration of natural resources, and the industrialization of countries is presented. Prerequisite: World Geography. Spring semester of odd years.

Geo 306 Geography of Africa *3 semester hours*

Hawthorne

The study emphasizes the geographic factors that aid in a better understanding of the problems that face Africa today. Geographic as-

pects of past and present day history are discussed, as well as the aspects of race, religions, and tribal organizations. The climate, topography, agriculture and minerals of Africa are discussed as well as other important features related to geography. Prerequisite: World Geography.

Geo 312 Geography of Australia and Associated Islands *3 semester hours*

Hawthorne

Emphasis is placed on the natural factors of climate, location, minerals and topography and their relationships to the numbers and distribution of the population. Special note is taken of the native and introduced flora and fauna found in these regions as well as the importance and effect of the growing industrialization of Australia. Farming, transportation and the geo-politics of this region are also discussed. Prerequisite: World Geography.

Geo 307 Geography of the U.S.R.R.

(Including Satellite Countries *3 semester hours*

Langdon

This course will include a study of both European and Asiatic U.S.S.R., with emphasis on the positive and negative factors in the geography of that country in relation to its strength and weaknesses as a major world power. Fall semester and summer sessions.

Geo 308 Trade and Transportation

(Including Commercial Air Transportation) *3 semester hours*

Bielski

A study of transportation routes, ports, railroad centers, hinterlands, and trade relations between production areas and countries.

It also covers the development of commercial aviation. Policies such as governmental agreements, subsidies, control and use of air bases, the importance of Polar regions, and the Great Circle air routes are considered. Prerequisite: World Geography. Fall semester of even years.

Geo 309 World Problems in Geography *3 semester hours*

Bielski

A course considering some of the world problems which need a geographic background for understanding and solving them. Attention is given to boundary questions, the value and control of colonies, fishery agreements, problems concerning commercial aviation, world trade, the feeding of the world, control and development of natural resources, the making of the peace, and similar topics. Prerequisite: World Geography. Fall semester of even years and summer session.

Geo 310 Field Courses in Geography

(as approved) *3 semester hours*

Keinard

These courses, which involve the study of selected areas through the agency of travel and actual investigation, are arranged from time to time to suit the needs of the student groups. Prerequisite: World Geography. Pre-session of summer only.

Geo 311 Teaching Geography in Secondary Schools

3 semester hours

Hawthorne

An intensive study of the modern techniques of teaching geography, geography materials, and current curricula in geography. Emphasis is placed upon the contribution of geography to the solving of national and world problems; the skills, habits, and the attitudes to be gained from geography courses in the junior and senior high schools which aid in the development of world citizenship, the courses suitable for such groups, and the new books available at this level. Spring semester.

HEALTH AND PHYSICAL EDUCATION DEPARTMENT

MR. STURZEBECKER, *Chairman of the Department*

MR. COTTRELL, *Vice-Chairman*

Miss Schaub, Miss Yanisch, Mr. Davis, Mr. Twardowski, Mr. Mitten, Miss Reed, Miss Coates, Mrs. Taylor, Mr. Cochran, Mr. Lorback, Mr. Norris, Miss Margerum, Mr. Black, Mr. Youmans, Mr. Wilkinson, Mrs. Nesley, Mr. Goodwin, Mr. Hopkins, Miss Powlus, Mr. Furlow, Miss Rokus, Mr. Heim, Miss Kyvallos, Mr. Trnka, Mr. Yoder.

Physical Activity Courses

HEd 121 Individual Sports for Men *1 semester hour*

Hopkins, Goodwin, Heim

MEN: Emphasis is placed on individual sports and recreational activities which include: tennis, golf, volleyball, softball, tetherball, table tennis, handball, winter sports.

HEd 121 Fundamentals of Field Hockey, Volleyball

Yanisch, Taylor, Nesley, Kyvallos

WOMEN: Foundations course stressing fundamental skills in field hockey; individual skills, team tactics, and officiating techniques in volleyball. Fall semester.

HEd 122 Theory and Practice of Track and Field *1 semester hour*

Mitten, Youmans, Heim

MEN: A continuation of individual sports and recreational activities which includes the fundamentals of track and field.

HEd 122 Fundamentals of Baseball and Tennis

Yanisch, Taylor, Nesley

WOMEN: Foundations course stressing fundamental skills in basketball, individual skills, game tactics, and officiating techniques in tennis. Spring semester.

HEd 221 Soccer and Wrestling *1 semester hour*

Lorback, Goodwin, Black

MEN: The first half will concern soccer rules, fundamental skills, techniques, drills, offensive and defensive patterns and methods of coaching. The second half of this course will cover fundamental skills of wrestling, techniques, strategy, scoring, rules, theory and methods of coaching.

HEd 221 Advanced Tennis and Field Hockey, Badminton

Yanisch, Taylor, Nesley, Coates

WOMEN: Advanced fundamentals and team tactics in field hockey; fundamental skills, game tactics, and officiating techniques in badminton. Fall semester.

HEd 222 Basketball and Baseball *1 semester hour*

Lorback, Hopkins, Goodwin

MEN: Basketball instruction in individual offensive and defensive fundamentals, drills and warm-up procedures, development of team play, various types of offenses and defenses, and specific coaching methods. In addition, instruction in basketball fundamentals and their relationship to offensive and defensive play. Students will also study the rules, techniques, and procedures used in officiating basketball. Baseball is also given which includes the fundamentals, strategy, and theory of coaching.

HEd 222 Advanced Basketball, Lacrosse

Coates, Nesley, Yanisch, Kyvallos

WOMEN: Advanced fundamentals and team tactics in basketball; fundamental skills, team tactics, and officiating, techniques in lacrosse. Spring semester.

HEd 321 Football *1 semester hour*

Mitten, Wilkinson

MEN: A theoretical and practical approach to the many phases of football including individual fundamentals, developing an offense, various defenses, the passing and kicking game. A comprehensive study of rules, techniques and procedures associated with football officiating.

HEd 321 Coaching and Officiating Techniques in Basketball and Hockey

Taylor

WOMEN: Methods of teaching, officiating techniques, and practical experience in field hockey and basketball. Fall semester.

HEd 322 Organization and Administration of Intramurals and Interscholastic Athletics *1 semester hour*

Mitten, Lorback, Black

MEN: Principals of organization, administration, and supervision of intra-mural and secondary school athletic programs. Instruction to include facilities and equipment, routine procedures, budget and finance, legal liability, scheduling and public relations.

HEd 322 Individual Sports for Women; Track and Field; Archery; Golf

Taylor, Yanisch

WOMEN: Development of individual skills in archery and golf; fundamental skills, team tactics, and officiating techniques in softball; fundamental skills in track and field events, methods and procedures for conducting meets. Spring semester.

HEd 111 Introduction to Marching and Formal Gymnastics *1 semester hour*

Davis, Twardowski, Norris, Trnka

MEN: An introductory course in fundamentals of marching, gymnastic exercises, and games.

HEd 111 Soccer, Speedball, Marching, Exercise Fundamentals

Margerum, Nesley

WOMEN: Motor ability tests, soccer, speedball. An introductory course in calisthenics and marching tactics, games. Fall semester.

HEd 112 Introduction to Apparatus *1 semester hour*

Davis, Twardowski, Lorback, Norris, Wilkinson, Trnka, Yoder

MEN: An introduction to elementary heavy apparatus, stunts, and tumbling.

HEd 112 Gymnastic Fundamentals

Margerum, Nesley

WOMEN: Apparatus for beginners, application of playground apparatus, stunts, tumbling, and pyramids for different age levels in elementary school. Spring semester.

HEd 211 Preparation for Teaching Elementary Physical Education *1 semester hour*

Cochran, Wilkinson, Yanisch

Preparation for teaching of elementary physical education: singing games, story plays, self testing activities, teaching of elementary games; a unit on playground apparatus and specific stunts on apparatus and tumbling.

HEd 212 Advanced Apparatus *1 semester hour*

Wilkinson, Davis, Twardowski, Lorback, Norris, Trnka, Yoder

MEN: Practice in advanced apparatus, stunts and tumbling.

HEd 212 Advanced Gymnastics *1 semester hour*

Margerum, Nesley, Trnka

WOMEN: Advanced apparatus, tumbling, pyramids, tap dancing.

HEd 311 Preparation for Teaching Secondary Physical Education *1 semester hour*

Davis, Twardowski, Norris

MEN: Preparation for teaching of secondary physical education programs; voice training, class practice teaching of marching gymnastic exercises, development of activity lesson plan.

HEd 311 Special Events in Physical Education *1 semester hour*

Nesley, Yanisch

WOMEN: Rhythmical exercises with and without hand apparatus, planning and executing special events such as May Days, Festivals, Sports Days, Assembly Programs, Field Days. Fall semester.

HEd 312 Exhibition Gymnastics *1 semester hour*

Davis, Wilkinson, Trnka, Yoder

MEN: Special forms of gymnastic activities including rhythmical exercises, trampoline, elephant vaulting, combinations on apparatus, and a unit on pageants, exhibitions, and demonstrations.

HEd 312 Preparation for Teaching Secondary Physical Education

Taylor, Yanisch, Rokus

WOMEN: Building the physical education program, grades 1-12—content appropriate to each grade level, progression, seasonal units, activity units, lesson plans, voice training. Games, including recreational games at the secondary level, methods of teaching. Spring semester.

HEd 241 Elementary Rhythms and Folk Dancing

1 semester hour

Schaub, Davis, Coates, Powlus

A study of the place of dancing and rhythmical activities in the school physical education program with particular emphasis on clog, tap, and elementary folk dancing. The course includes a study of the fundamentals of movement, music, and rhythm and their relationship to each other; child rhythms, and folk dances suitable for elementary school children; suggested teaching methods. Fall semester.

HEd 242 Social, Square, and Advanced Folk Dancing

1 semester hour

Schaub, Davis, Coates, Powlus

Co-recreational activities will be emphasized in this course which includes square and country dancing, advanced folk and social dancing. In addition to the development of personal skills, the course also incorporates methods of teaching and source materials for dance programs. Spring semester.

HEd 131 Aquatic Fundamentals

1 semester hour

Twardowski, Wilkinson, Goodwin, Heim

MEN: Diagnosis, study and practice of the basic swimming strokes; introduction to diving and competitive swimming; study of speed swimming strokes, racing starts, turns, and relay races; floating and endurance swimming, aquatic games, races, stunts, and exhibitions; introduction to recreational aquatics and synchronized swimming formation.
Margerum, Rokus

WOMEN: An analysis is made of the basic principles involved in swimming for all ages and ability levels. Emphasis is placed on safe practices as well as various methods of instruction and techniques. Class organization and the use of teaching devices are presented and explained. Application of the basic principles is made throughout the course during the progression of all skills.

The organization and administration of competitive swimming for women, with the modifications and changes necessary in the basic skills, are studied and analyzed.

HEd 132 Life Saving and Water Safety *1 semester hour*

Twardowski, Goodwin, Heim

MEN: The philosophy of life saving and the responsibility of guarding the lives of bathers and swimmers; diagnosis, study, and practice of the life saving skills and techniques; discussion of floating supports, canoeing, boating, use of the paddle board, and planning and supervision of waterfront activities in recreation programs. Successful completion of this course will enable the student to receive senior life saving certification by the American National Red Cross.

HEd 132 Advanced Aquatics and Water Safety

Margerum, Rokus

WOMEN: Continued emphasis is placed on the basic principles and skills in swimming. Safety and survival techniques are analyzed and learned. Life saving practices are emphasized and performed. Perfection of life saving skills and knowledge in swimming will lead to a Senior Life Saving Certificate.

Synchronized swimming, stunts, formations, and routines are also studied.

Health and Physical Education Theory Courses

HEd 151 Hygiene *3 semester hours*

Staff

This course is designed to help students to acquire a background of scientific health knowledge and develop an interest in modern scientific developments in the field of personal and public health; to establish high standards of personal living and develop desirable attitudes toward healthful living through the study of principles and practice of personal hygiene and to realize that personal health, child welfare, and public health are the responsibility of every citizen. Both semesters.

HEd 152 First Aid *2 semester hours*

Twardowski and Staff

Basic instruction will center around the American Red Cross standard and advanced course of study of first aid. Selected students may also have an opportunity to receive the American Red Cross First Aid Instructor's Certificate. As a supplement to these areas of concentration there will be a brief review of human kinesiology as it pertains to the prevention and cure of athletic injuries. Fall semester.

HEd 261 History and Philosophy of Physical Education *2 semester hours*

Lorback, Yanisch, Hopkins

A study of the changing conceptions of physical education of many past ages and cultures so as to provide a foundation for the philosophy,

principles, curriculum, organization and administration, methods, and trends of modern physical education. Spring semester.

Anatomy and Physiology I and II

(See Biol. 261 and 262) Both semesters *6 semester hours*

HEd 351 Human Development *3 semester hours*

Reed, Coates, Cochran

Designed to help students understand growth from birth through adolescence, this course includes methods of studying pupils, influences on growth, and characteristic development at various age levels. Implications for the health and physical education program are stressed throughout. Both semesters.

HEd 352 Methods and Materials in Health Education

2 semester hours

Twardowski, Reed, Mitten

A comprehensive study of school health services, healthful school environment, and school health instruction. The major emphasis is on the teaching of health, including the latest methods and materials, and the construction of lesson plans, units, and other teaching aids. Students will complete their files of curriculum materials and instructional aids as a prerequisite for student teaching. Spring semester.

HEd 361 Tests, Measurements and Statistics in Health and Physical Education *3 semester hours*

Youmans, Lorback, Cochran

Experience in selecting, administering, scoring, and evaluating physical activity tests of physical fitness, general motor ability, motor educability, and skill and knowledge in sports. Competency in the use of elementary statistical procedures of objective learning and testing. Prerequisite: Educational Psychology. Fall semester.

HEd 362 Physical Education for the Elementary Grades

2 semester hours

Cochran, Wilkinson, Furlow

The students will be assigned to elementary schools in the service area for observation and teaching in physical education. This will involve all the games and relays, self testing activities, rhythms and dances suitable for the growth and developmental needs of the elementary school child. A weekly seminar will be held to discuss the theory and problems involved in elementary physical education. Both semesters.

HEd 363 Applied Physiology *2 semester hours*

Norris, Youmans

A functional course applying physiological principles of neuromuscular activity to the frame of reference of the physical educator. A clinical approach will be taken to acquaint the student with basic aspects of theories of neuromuscular coordination and motor learning, strength development, endurance, and the analysis of human motion. Prerequisites: Human Anatomy and Physiology I and II. Fall semester.

HEd 364 Organization and Administration of Physical Education *3 semester hours*

Cottrell, Youmans, Black, Taylor, Lorback

Principles of program building in physical education and athletics, curricular and extra-curricular; facilities and equipment, routine procedures, budget and finance, legal liability, and public relations. Prerequisite: Tests, Measurements and Guidance in Health and Physical Education. Spring semester.

HEd 365 Physical Activities for Atypical Children I *2 semester hours*

Taylor, Norris, Black, Goodwin

A course presenting to the student a method of teaching which will motivate the atypical student to improve not only his physical condition, but also his outlook on life. This course deals with the sport phase of the education of the handicapped through the use of adapted sports programs. Both semesters.

HEd 390 Orthopedic Disabilities of Childhood *2 semester hours*

Norris

A comprehensive study of the common disabilities of childhood, especially those deviations that are chronic in character. Major emphasis will be placed on developing an understanding of the medical aspects and problems of rehabilitation of the physically disabled.

HEd 391 Psychology of the Physically Handicapped *3 semester hours*

Norris

A study of the psychology of physique and physical disability and the related cultural implications. Students will be given an opportunity to make personal exploration into the psychodynamics of disability.

HEd 461 Physical Activities for Atypical Children II *2 semester hours*

Taylor, Norris, Goodwin

A course concerned with the modern concepts of the therapeutic exercise phase of physical education in the prevention and correction

of common handicapping conditions. The student is furnished with adequate information and guidance for giving the handicapped individual the proper type and amount of physical education to meet his needs and capacity. Both semesters.

HEd 462 Principles of Recreation *2 semester hours*

Black

Historical background of the present play movement; theoretical explanations of play; the need for play in modern life and its place in education and recreation; the fundamental principles and methods of recreation leadership. Both semesters.

HEd 463 Principles of Coaching *2 semester hours*

Yanisch, Lorback

Principles and methods of coaching sports in the school program; problems of the coach with regard to psychology of handling a team, training, motivation, and schedule planning; bridging the gap between knowing how to play and the functions of coaching. Both semesters.

HEd 471 Student Teaching and Direction of Student Activities *12 semester hours*

Cottrell, Schaub, Davis, Margerum

Observation and participation in teaching situations in the junior and senior high school under qualified cooperating teachers. Professional conferences and visitations are provided throughout this teaching semester which may be taken in the fall or spring term of the academic year depending upon administrative planning. Both semesters.

HEd 472 Professional Practicum Including School Law *2 semester hours*

Sturzebecker, Cottrell, Schaub

Accompanying student teaching an undergraduate seminar will be required. This will include a study of problems met in the teaching semester and review of those sections of the Pennsylvania School Law pertinent to teaching activities in the major field. Both semesters.

ELECTIVE COURSES

ELECTIVES IN "EDUCATION FOR SAFE LIVING" (HIGHWAY SAFETY AND GENERAL SAFETY EDUCATION)

HEd 481 Introduction to Safety Education *3 semester hours*

Mitten

The importance of safety education in modern living. Methods of overcoming the hazards present in the home, school, community, industry, and traffic. How to teach safety habits and attitudes. Fall semester.

HEd 482 Driver Education and Training *3 semester hours*

Cottrell

Classroom study of personal characteristics bearing on driving, use of various types of tests, and techniques of teaching beginning drivers. Road instruction on the use of dual control cars in the teaching of safe driving. Prerequisite: Driver's license. May be taken for no credit by holders of learner's permits. Offered in summer sessions only.

HEd 483 Psychology of Accident Prevention *3 semester hours*

Cottrell, Mitten

A study of methods for developing attitudes toward safety; the part played by personality and emotions in accidents. Offered in summer sessions only.

HEd 484 Methods and Materials in Safety Education *3 semester hours*

Cottrell, Mitten

Methods of teaching safety and subject matter placement in the elementary and secondary schools. Source material and measuring the results of safety education. Prerequisite: Introduction to Safety Education. Spring semester.

HEd 485 Organization and Supervision In Safety Education *3 semester hours*

Mitten

History, philosophy, and basic principles of organization and administration of safety education. Organization and supervision of safety education in the public schools, including program planning. Legal aspects in the administration of school safety. Prerequisite: Introduction to Safety Education. Spring semester and summer session.

ELECTIVES IN RECREATION

HEd 366 Organization and Administration of Recreation *3 semester hours*

Davis

Policies and procedures which are essential in the promulgation of recreation programs on local, state, and national levels. This includes visitations to and evaluations of recreation centers in operation. Students will be given opportunities to plan and administer recreational projects. Prerequisite: Principles of Recreation. Fall semester.

HEd 464 Supervised Recreation Leadership *4 semester hours*

Davis

Students will have guided experiences in active leadership in the various recreational programs of our immediate area. A one-hour practicum will be held each week to discuss problems and principles of Recreational Leadership. Fall semester.

HEd 367 Arts and Crafts in Recreation *3 semester hours*

Yanisch

Theoretical and practical applications in the use of arts and crafts materials as a means of furnishing channels for recreative outlets for all age groups. Opportunities will be given to work in the various media customarily found in school, camp, and community recreation programs. Both semesters.

HEd 368 Music in Recreation *3 semester hours*

Davis and Staff

A study of the many phases of recreational music as an effective leisure time activity for all age groups in communities, camps, playgrounds, and recreational centers; an understanding of the functions of the recreation leader in the music phase of the recreation program.

Specific activities in which students will participate are as follows: community singing and conducting, rounds, contra songs, action songs, making stereoptican slides for group singing, playing simple instruments such as the tonette or song flute, making rhythm band instruments, playing in and conducting a rhythm band, producing musical puppet shows, simple operettas, setting up the organization for the advanced listening, singing, and playing program. Spring semester.

HEd 369 Dramatics in Recreation *3 semester hours*

Davis and Staff

The place of dramatic activities that meet recreational needs of all groups as either participators or spectators of the activities. Emphasis

will be placed upon the appropriate plays and other dramatic media that fit all age levels in any community. Fall semester.

HEd 370 Camping and Outing *3 semester hours*

Davis, Twardowski

A program including both theory and practice in all the elements of camping and outing programs. The student will gain an insight into these activities from the viewpoints of the camper, the counselor, the supervisor, the specialist, and the director. Fall semester.

HEd 331 Aquatic Leadership *2 semester hours*

Twardowski

Leadership procedures in all aquatic activities found in the public school program and in school camps. The student will have an opportunity to qualify as a waterfront safety instructor and will study problems in organization and administration of aquatic programs. There will be a complete analysis of all swimming strokes and life saving techniques. Both semesters.

HEd 341 Modern Dance *1 semester hour*

Coates, Powlus

This course is designed to prepare teachers in all elements of Modern Dance Activities that are employed in the Public School Program. The student is thoroughly grounded in fundamentals and teaching techniques of Modern Dance on the Elementary and Secondary levels. Opportunity for creative work is provided. Fall semester.

HEd 353 First Aid For Teachers *2 semester hours*

Twardowski, Heim

A study of advanced first aid techniques and the methods and procedures for teaching first aid; problems of safety in home and school. Successful completion of this course may qualify the student for an instructor status. Spring semester and summer session.

ELECTIVES IN PHYSICAL THERAPY

HEd 392 Introduction to Physical Therapy *2 semester hours*

Norris

An introductory course for men and women students anticipating matriculation in a post-graduate school of Physical Therapy. Major emphasis will be placed on correlating selected basic biological and physical science information relative to the practice of Physical Therapy. Prerequisite: Anatomy and Physiology I and II, Applied Physiology, and Physics. Fall semester.

HEd 491 Seminar and Observation in Pre-Physical Therapy
3 semester hours

Norris

A course designed to provide the pre-physical therapy student with a general overview of the physical therapy profession and related fields of physical therapeutics. Students will spend one clock hour per week in a classroom seminar and eight hours per week in a rotational plan of visitations to and observation in recognized public physical therapy clinics and public school programs of remedial physical education. Prerequisites: Introduction to Physical Therapy. Spring semester.

A PROGRAM OF INDEPENDENT STUDY

AND

SUPERVISED FIELD EXPERIENCES IN CAMPING

The Department of Health, Physical Education, and Recreation offers a special program of courses in camp leadership for staff members at children's summer camps. These courses are designed to aid the student's professional growth and knowledge through directed leadership experience with children in the informal atmosphere of the camp.

COURSES AVAILABLE

UNDERGRADUATE STUDENTS

HEd 464 Supervised Recreation Leadership — 3 credits
(6 to 8 weeks' attendance July through August)

Davis

GRADUATE STUDENTS

HEd 511. Field Problem in Recreation — 2 credits
(6 to 8 weeks' attendance at camp July through August)

Sturzebecker

TUITION FEE:

Undergraduate Fee $12.50 per credit
Graduate Fee $20.00 per credit

For either Undergraduate or Graduate Admission, there will be an Administrative Service Fee of $15.00 per student.

ELIGIBILITY:

Any matriculated student at West Chester State College is eligible to participate in the program. Permission of the special advisor should be obtained if credit is to be applied toward a degree. Students from

other colleges may register with the permission of the course instructor. It is suggested that students enrolled at other colleges obtain the approval of their special advisor or appropriate administrative officer to assure that these courses may be applied toward degree requirements.

GENERAL ELECTIVE

HEd 451 Community and School Health Education Workshop

3 semester hours

Reed, Sturzebecker, Cottrell

A study of common problems in the home, community, and school health education areas. A five-point program is as follows: to provide in-service training in health education; to stimulate and promote an effective follow-up program in health services; to coordinate the efforts of allied health agencies; to stimulate and promote interest in local health units; and to develop an awareness of the place of mental health in the total health program of the home-school-community. Offered in summer sessions only.

Health and Physical Education for Elementary, Secondary, and Music Students

---

For Elementary Curriculum Students

HEd 101 Physical Education I

1 semester hour

Staff

Introducing the student to an extensive program of recreational athletics having a high potential carry-over into post-college life. Included are archery, badminton, basketball, hockey, soccer, softball, speedball, swimming, tennis, and volleyball. Fall semester.

HEd 150 Health

2 semester hours

Staff

A course designed as an integrative experience in personal health education for the freshman student. The primary areas include: mental and emotional adjustment to the college environment, family relationships, factors influencing physiological health, and the college student as an intelligent appraiser of health practices and fads. Both semesters.

HEd 201 Physical Education II

1 semester hour

Staff

Continuation of individual activities with a gradual emphasis placed upon those physical activities which elementary children enjoy. The

basic organization of the physical education program in the modern elementary schools is reviewed. Basic principles in teaching children how to play simple games and relays and those other recreational activities that are associated with this age group. Opportunities for lesson planning and teaching are provided for in a practical manner. The ability to plan for and direct the practical "recess" period in the elementary school program will be a main objective for each student. Spring semester.

HEd 202 Physical Education III *1 semester hour*

Staff

The place of fundamental rhythms, creative rhythms, singing games, and folk dances on the elementary level will challenge the student. Personal skills in these areas will develop and each student will assume the leadership in directing these activities in class situations. The use of dancing activities for demonstrations and pageants will be studied. Spring semester.

HEd 350 Health for the Elementary Grades *2 semester hours*

Reed and Staff

A course based upon the premise that health education is not a subject but rather a way of living. Special emphasis placed upon the development of sound principles and procedures in meeting the different needs of the child in relation to the school, home, and community. Elementary health courses of study will form the basic point from which each student will explore content and methods for making a sound total health education program. The inter-relationship of health education with all fields in the modern elementary program will be a focal point of attention. Both semesters.

For Secondary Curriculum Students

HEd 104 Physical Education I *1 semester hour*

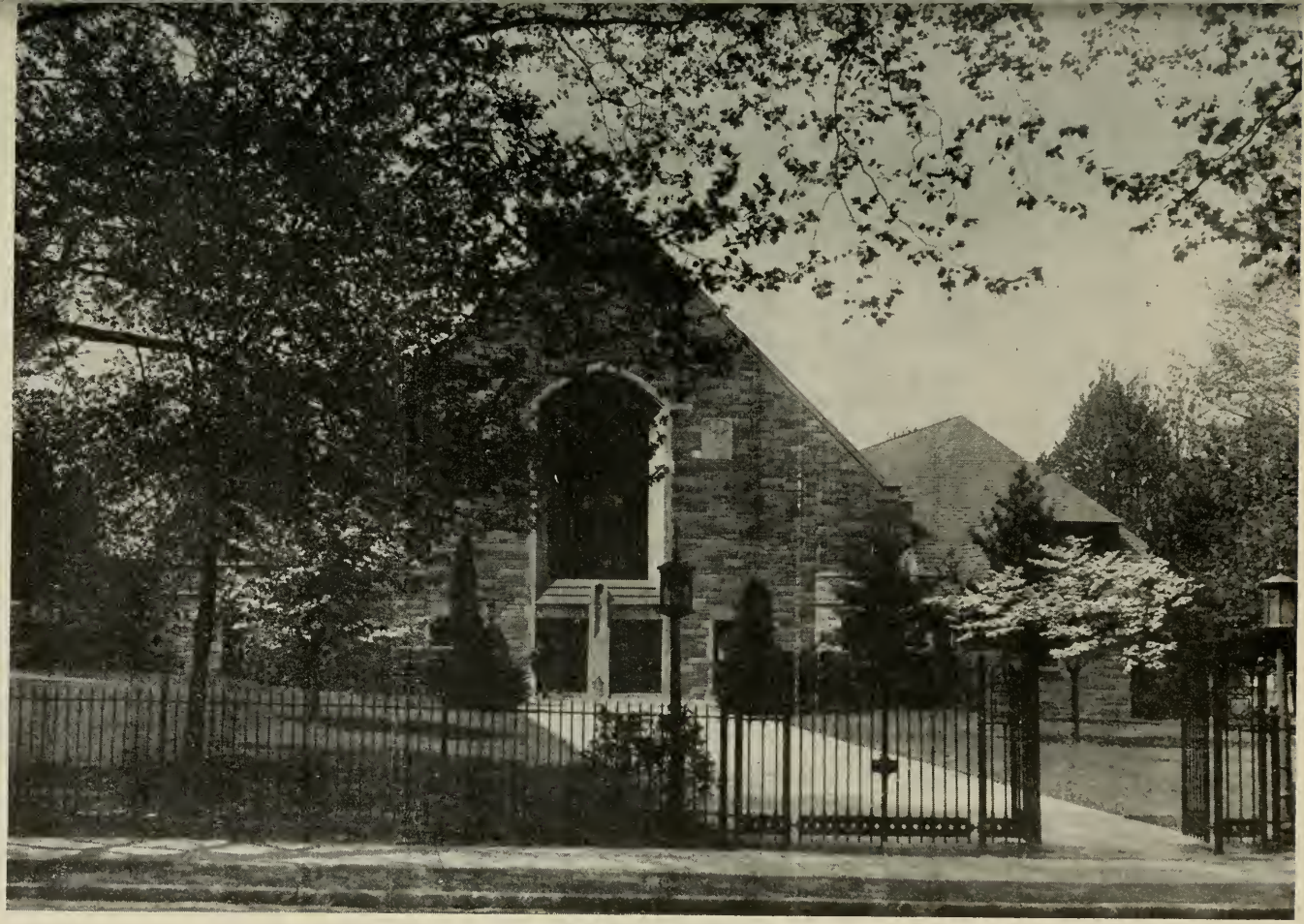
Staff

A wide variety of experiences in athletic games contemporaneous to college age levels will initiate the program. An introduction to those activities which have carry-over value into adult life will be the center of interest. These include soccer, speedball, hockey, basketball, swimming, softball, and tennis. Fall semester.

HEd 150 Health *2 semester hours*

Staff

The same as Health for Elementary Curriculum Students. (Offered both semesters.)



EHINGER GYMNASIUM

HEd 204 Physical Education II *1 semester hour*

Staff

Further experiences in individual sports will be offered including not only the learning of skills for personal enjoyment but also developing an elementary ability to help direct these in the modern secondary school recreational program. These include archery, badminton, bowling, golf, quoits, horseshoes, shuffleboard, tether ball, and winter sports. Spring semester.

HEd 205 Physical Education III *1 semester hour*

Staff

Rhythmical activities that are of great interest to secondary schools will be offered. These include social, folk, square, and country dancing. Emphasis will be placed upon both the development of individual skill and ability to help direct these activities as a feature of the recreational program in schools. Spring semester.

For Music Curriculum Students

HEd 107 Physical Education I (Eurythmics I) *1 semester hour*

Coates, Powlus

The realization of rhythm in bodily movement and the development of neuro-muscular responses to the perception of musical rhythms are bases for the course. The student will become familiar with the factors of timing, force, and space so as to increase both his skill in bodily movement and his appreciation of rhythm. Swimming activities are also included.

HEd 150 Health *2 semester hours*

Staff

The same as Health for Elementary Curriculum Students. Both semesters.

HEd 207 Physical Education II (Eurythmics II) *1 semester hour*

Coates, Powlus

The development of an appreciation of rhythmic movement patterns through specific dance forms: Polka, Schottische, Waltz, Mazurka, Pavanne, Polonaise, Sarabande, Bouree, Gavotte, Minuet. Opportunities will be provided for the application of the principles of eurythmics in teaching music to children through both the planning and teaching of

typical elementary school units; such as, Folk Festivals, Circuses, May Days, Indians, Transportation, Work and Occupations, Special Holidays. Some swimming activities are included. Spring semester.

HEd 208 Physical Education III *1 semester hour*

Staff

A course providing an extensive variety of recreational athletic experiences which have the highest potential value for enjoyment in post-college life. Activities include archery, badminton, bowling, swimming, deck tennis, softball, volleyball, tennis, golf, and winter sports. Spring semester.

MATHEMATICS DEPARTMENT

MR. FILANO, *Chairman of the Department*

Mr. Milliman, Mrs. Stanley, Mr. Morrill, Mr. Sgambati, Miss Childs, Mr. Branton, Mr. Sevier

Mat 101 Introduction to College Mathematics I

3 semester hours

Staff

A course emphasizing fundamental mathematical ideas and methods of mathematical thinking. Includes reasoning in mathematics, sets, logic, structure of mathematical systems, functions, geometry and trigonometry. Both semesters and summer session.

Mat 102 Introduction to College Mathematics II

Staff *3 semester hours*

A continuation of Mat 101. Prerequisite: Mat 101.

Mat 105 College Algebra and Trigonometry

3 semester hours

Staff

A unified course emphasizing the spirit of modern mathematics as it applies to algebra and trigonometry. Includes the nature of mathematics, the number systems, logic, sets, inequalities and functions, equations and identities in both fields. Prerequisite: Three years of high school mathematics. Both semesters and summer session.

Mat 131 Analytic Geometry *3 semester hours*

Staff

A study of loci and their equations through the use of algebra and geometry. Includes rectangular and polar coordinates, straight lines, conic sections, higher plane curves, transformation of coordinates, parametric equations. Prerequisite or concurrent: Math. 105. Both semesters and summer session.

Mat. 211 Advanced Algebra *3 semester hours*

Milliman

A course in matrices, determinants and selected topics from the theory of equations. Prerequisite: Math 105. Spring semester and summer session.

Mat 241 Differential Calculus *3 semester hours*

Filano, Milliman

A course covering limits, continuity and derivatives. Includes derivatives of algebraic and transcendental functions, differentials and applications. Prerequisite: Math 131. Both semesters.

Mat 242 Integral Calculus *3 semester hours*

Filano, Milliman

A study of integration as a process of summation. Includes formulas and methods of integration and the application of integrals to area, volume, centroids, force, work and other practical problems. Prerequisite: Math 241. Both semesters.

Mat 303 Statistics *3 semester hours*

A study of the presentation and analysis of numerical data. Includes graphs, frequency distributions, measures of central tendency and dispersion, correlation, probability, regression and prediction, normal curve, reliability of statistical measures. This is a course for non-mathematics majors. Prerequisite: 2 years of high school mathematics. Spring semester.

Mat 331 College Geometry *3 semester hours*

Sgambati

A course for the extension of competency in geometry. Included for study are the development of geometric systems and deductive proof, theorems of Ceva and Menelaus, transformations, inversion properties and constructions.

Mat 341 Intermediate Calculus *3 semester hours*

Filano, Milliman

A continuation of the Calculus including infinite series, expansion of functions, solid analytic geometry, partial derivatives, multiple integrals and their applications. Prerequisite: Math 242. Both semesters.

Mat 343 Differential Equations *3 semester hours*

Filano

A course in the theory, solution and application of ordinary differential equations. Prerequisite: Math 341. Spring semester.

Mat 350 Teaching of Mathematics in Secondary Schools *3 semester hours*

Morrill

A course in modern techniques of teaching mathematics. Includes the aims of mathematics instruction, motivation, methods of instruction and evaluation in mathematics. Emphasis is placed on the new mathematics and on modern courses of study. Opportunities are provided for students to plan and present lessons in mathematics and to observe mathematics classes in secondary schools. Prerequisite: Math 242. Fall semester.

Mat 351 Arithmetic for the Elementary Grades *3 semester hours*

Morrill

A course designed to acquaint students with modern methods of teaching arithmetic and with the content of the arithmetic curriculum. Emphasizes the teaching of concepts, stresses the construction and use of learning aids, considers arithmetic syllabi and texts, provides opportunities for students to prepare and present lessons in arithmetic and to observe arithmetic classes in elementary schools. Both semesters and summer session.

Mat 401 History of Mathematics *3 semester hours*

Morrill

A study of the growth of mathematics through the centuries and the men who contributed to it. Prerequisite or concurrent: Math 242. Spring semester.

Mat 403 Mathematical Statistics *3 semester hours*

A course in the mathematical bases of statistical measures. Includes probability, moments, distribution functions, regression and correlation. Prerequisite: Math 242. Both semesters.

Mat 405 Special Topics in Mathematics *3 semester hours*

Staff

The content of this course is variable and will be announced at the time of offering.

Mat 411 Modern Algebra I *3 semester hours*

Milliman

A course in the foundations of algebra. The postulational approach to algebraic systems is emphasized. Integral domains, fields, groups and rings are among the systems included for study. Prerequisite: Math 242. Fall semester.

Mat 412 Modern Algebra II

Milliman

A continuation of Mat 411. Prerequisite: Mat 411. Spring semester.

Mat 431 Modern Geometry *3 semester hours*

Sgambati

A course in the foundations of Geometry. The postulational approach to geometric systems is emphasized. Both Euclidean and Non-Euclidean systems are included for study. Prerequisite: Math 242. Spring semester.

Mat 432 Topology

Branton

An introductory course in the basic notions of point set topology. Elementary set theory, topological spaces, connectiveness, compactness, metrizability, completeness and transformations are among the topics included for study. Prerequisite: Mat 341.

Mat 441 Advanced Calculus I *3 semester hours*

Branton

A course in the foundations of real analysis. Includes a rigorous treatment of limits, continuity, derivatives, sequences, and Riemann integrals. Prerequisite: Mat 341. Fall semester.

Mat 442 Advanced Calculus II *3 semester hours*

Branton

A continuation of Mat 441. Included for study are functions of several variables, partial differentiation, implicit function theorems, transformations, multiple integrals and other selected topics. Prerequisites: Mat 441. Spring semester.

MUSIC DEPARTMENT

MR. MITCHELL, *Chairman of the Department*

Mr. Middleton, Mr. Jones, Mr. Antonowich, Mr. Wright, Mr. Carl, Mr. Carson, Mr. Fletcher, Mrs. Gottlieb, Mr. Gutscher, Mr. Cheesman, Mr. Wilkinson, Mr. Sweet, Miss Sheppard, Mr. Jones, Mrs. Kelly, Mr. Sprenkle, Miss Williams, Mr. Barrow, Mrs. Bernard, Mr. Whitten, Mrs. Beatty, Mr. Pflieger, Mr. Gangemi, Mr. Krueger, Mr. Boerlin, Mr. Schick, Miss Hales

THEORY

WRIGHT, *Chairman*

The theory courses aim to develop the techniques required for a comprehensive understanding of music literature and the background necessary for intelligent interpretation, arranging, and composition. These techniques include: the harmonization of melodies; analysis of form; creative work—at the keyboard and written; aural recognition of the harmonic vocabulary being studied; and the application to the keyboard of this vocabulary.

Mus 100 Foundations of Music *3 semester hours*

Wright, Wilkinson, Gangemi, Barrow Schick

Relates the technical aspects of music to the social and cultural currents of Western Music. The historical approach to technical mastery is presented here in a degree which is beyond the province of courses in History, Literature, and Appreciation of Music. Pitch and rhythm, its representation through the centuries to the present age, and the development of basic skills in sight singing and dictation are included. Both semesters.

Mus 110 Theory of Music *3 semester hours*

Wright, Wilkinson, Gangemi, Barrow, Schick

This course includes the study of sound and the use of such related mathematical skills as first degree equations, ratios, and interferences of periodicities. Aural recognition of the diatonic triads and their inversions is stressed as well as the development of part-writing skills. Melodic, rhythmic, and harmonic dictation is included. Prerequisite: Mus. 100. Both semesters and summer.

Mus 201 Theory of Music *3 semester hours*

Wright, Wilkinson, Gangemi, Barrow, Schick

A continuation of the development of basic skills presented in the preceding course, and introducing the study of modulation and non-harmonic tones. Prerequisite: Music 110. Both semesters and summer.

Mus 202 Theory of Music *3 semester hours*

Wright, Wilkinson, Gangemi, Barrow, Schick

In this course the student is given additional practice in handling the materials of Theory of Music 110 and 201, and introduces seventh chords and chromatic alterations. Prerequisite: Mus. 201. Both semesters.

Mus 301 Theory of Music *2 semester hours*

Wright, Wilkinson, Gangemi, Barrow, Schick

This course augments the student's harmonic vocabulary with a study of modulation to remote keys while developing the material of Theory of Music 202. Special attention is placed upon arrangement of compositions for voices and piano. All the techniques acquired in previous courses will be further developed. Creative application of materials is emphasized. Prerequisite: Mus. 202. Both semesters.

Mus 211 Sight-Singing I *3 semester hours*

Jones, Middleton

A study devoted to developing the specific skill of singing at sight. Emphasis rests upon coordination of the visual, aural, and theoretical aspects of the process. Extensive drill in individual and part-singing is directed toward quick recognition of appropriate tonal and rhythmic problems and the ability to reproduce them vocally. Prerequisite: Mus. 100. Both semesters and summer session.

Mus 212 Sight-Singing II *2 semester hours*

Jones, Middleton

Increased facility in reading is developed through the use of material of advanced difficulty involving chromatic alterations, more remote modulations and intricate rhythms. Prerequisite: Mus. 211. Both semesters.

Mus 233 Basic Physical Science (Musical Acoustics) *3 semester hours*

Wright, Fletcher

A special course in musical acoustics arranged for students in the Music Education Curriculum to give them an understanding of the nature of sound and the basic principles of production and transmission of sound with their applications to musical instruments. Further consideration is given to the physical basis of harmony and scales, hearing, the acoustics of concert halls, and the recording and reproduction of sound. Both semesters.

Mus 321 Counterpoint *2 semester hours*

Jones

A practical study of the fundamental material of music and its evolution. The course includes a comparison of harmonic and melodic

movement, analysis and writing of both vocal and instrumental polyphony in strict and free style. Prerequisite: Mus. 202. Both semesters.

Mus 322 Orchestration *2 semester hours*

Wright

A course including the techniques of the instruments of the orchestra and band and presenting the principles of instrumentation in theory and practice. Special emphasis is given to arranging for school orchestras and bands. Prerequisite: Mus. 202. Both semesters.

Mus 323 Composition *2 semester hours*

Wright

A course designed to give the advanced student more intensive experience in creative work. Although no definite idiom is prescribed, the use of contemporary techniques is encouraged. The work done in this course will be written for various mediums. Each student is offered guidance and aid in writing compositions in the forms, styles, and mediums best suited to his own special capabilities and needs. Prerequisite: Mus. 202. Spring semester.

MUSIC EDUCATION and STUDENT TEACHING

ANTONOWICH, *Chairman*

Mus 351 Human Development *3 semester hours*

Bernard

See course description under MUSIC: Humanities.

Mus 311 Secondary Music Methods *2 semester hours*

Bernard

A study of the choral and general music program of the secondary public schools. Included in assignments and discussions are: the development of good human relations involving the teacher, the students, the faculty, and the administration; the organization, procedure, problems, and materials of vocal music classes, covering voice classification, the changed and changing voices, voice classes, and choral organizations; special classes—the gifted and the retarded child; public performances; the school assembly; music appreciation classes; scheduling; requisitioning supplies and equipment; and school-community relationships. Special attention is given to the study of skills in teaching the general music classes. Particular emphasis is placed upon the selection and analysis of materials and evaluative techniques. Directed observations are included. Both semesters.

Mus 312 Instrumental Methods *2 semester hours*

Antonowich, Pflieger

Fundamentals underlying the development of instrumental programs in the public schools. A variety of current practices and problems are investigated and considered with the viewpoint that no one type of organization will serve the needs of all communities and schools. Included are: background information on instruments of the orchestra and band; transposition, fingering, etc.; consideration of problems of organization and administration; discussion, analysis and demonstration of teaching techniques and procedures; examination and evaluation of materials. Both semesters.

Note: Mus. 351 (Human Development), Mus. 311 (Secondary Music Methods) and Mus. 312 (Instrumental Methods) are all presented to students in the Music Education Curriculum in the same semester of the junior year. They are so scheduled as to permit regular and ample amounts of observation of the teaching of music in public schools and to correlate the course content with such observation. Thus, the student receives a practical introduction to the teaching of music in the public schools and undergoes a gradual induction into teaching responsibilities leading up to the student teaching semester.

Mus 324 Choral Materials and Practices *2 semester hours*

Jones

The course is designed to acquaint the student with a vast amount of choral music suitable for school use through actual analysis. Program building and other practical phases of presenting the chorus in performances are studied. Spring semester.

Mus 325 Piano Methods (Class) *2 semester hours*

Mitchell, Carl, Sprenkle

A course providing for the training of piano teachers and supervisors for the organization and teaching of piano classes in the public schools. Suitable teaching material including the leading system of class piano instruction will be examined and discussed. Demonstrations and student teaching are included. Spring semester.

Mus 326 Instrumental Techniques and Materials *2 semester hours*

Carson

The course is designed for those juniors and seniors who desire to specialize in instrumental music by expanding their knowledge of the instruments and the organization and administration of an instrumental department; modern materials for instrumental groups are studied and evaluated; rehearsal procedures; minor repairs to instruments; competitions and festivals in Pennsylvania; program building with special emphasis on marching band procedures. Fall semester.

Mus 327 Teaching Music Appreciation in the Elementary Grades *3 semester hours*

Gutscher

A course designed to enrich the music program throughout the grades. Suitable and available materials will be suggested from which each member of the class will be expected to organize a unit of work for a specific grade. The subject of these units will be decided by the needs of the class itself. Throughout the course an attempt will be made to provide variety of approach and to present the subject so as to conform to the child's mental, physical, and psychological development. Summer session only.

Mus 402 Seminar in Piano Teaching and Teaching Materials *3 semester hours*

Mitchell, Carl.

A seminar giving in-service music teachers and supervisors the opportunity for class study of outstanding examples of the piano literature. The role and integration of the piano into the public school program along with suitable teaching materials for class and private study will be analyzed and used in demonstrations and student teaching. Summer session only.

Mus 421 Student Teaching and Direction of Student Activities *12 semester hours*

Antonowich, Bernard, Pflieger

Observation and participation in teaching situations ranging from the primary grades through senior high school, vocal and instrumental music, in conjunction with qualified cooperating teachers. Professional conferences and visitations are an integral part of the experience.

HUMANITIES *JOHNS, Chairman*

Mus 100 Foundations of Music *3 semester hours*

Wright, Wilkinson, Barrow, Gangemi

See course description under MUSIC: Humanities.

Mus 220 Fine Arts *3 semester hours*

Middleton, Antonowich, Carson, Barrow, Sweet, Sprenkle, Whitten

This is a course designed to give the student a stimulating background in the history and appreciation of music from the Classical Period through the Contemporary Period. The objective of the course is to provide a humanistic approach to the Art of Music by relating it to its

contemporary arts and the societies in which it develops. The course provides further for a study of the major composers and their contributions to the literature of music. Stress is placed upon familiarity with the forms in music through analysis and comparison. To this end, representative compositions are heard and analyzed through recordings and other audible means. Both semesters and summer session.

Mus 310 History of Music *3 semester hours*

Johns

This course is basically a survey of the important movements in the History of Music from Primitive Times through the Baroque Period. It involves a study of the traditions of primitive societies and ancient civilizations, the development of music in the Christian Church, the contributions of the Middle Ages, and the developments in music through the Renaissance and the Baroque periods. Stress is placed upon the music of the 17th and 18th centuries. Where practical, representative compositions are heard and analyzed through available recordings. Both semesters and summer session.

Mus 320 American Music *2 semester hours*

Sprenkle

A course designed to trace the evolution of national style of composition from the earliest known American composers to the present day, and to acquaint the student with representative works of outstanding American composers. American music in our cultural heritage is analyzed and listened to with special regard for the amount of influence such things as jazz, impressionism, nationalities, and economics have had upon it. Spring semester.

Mus 351 Human Development *3 semester hours*

Bernard

A course dealing with the human growth and develpoment of children in the elementary grades. The psychological aspects of creating desirable attitudes in children are stressed. Emphasis is placed upon the potent influence which music has upon the personal, emotional, and social development of the child. Included in assignments are the development of the child's voice, his physical responses, music reading skills, and individual growth through creative musical activities. Particular emphasis is placed upon the selection and analysis of materials and evaluative techniques. Both semesters.

APPLIED MUSIC

Applied Music studied in this curriculum serves two purposes: that of developing the musicianship of the individual student; and that of providing the prospective teacher with the knowledge and techniques of

various musical media needed for conducting an effective music program in the public schools. The program is carried out by means of individual and class instruction, according to the needs of the student. Opportunity is given for ensemble and for solo appearances in recitals and with college organizations.

Advanced standing in private study may be achieved by students after the freshman year, upon successfully passing certain tests. Extra credit will be given to students in the advanced standing classification.

VOICE FACULTY

CHEESMAN, *Chairman*

Jones, Gutscher. Kelly, Sweet, Sheppard, Williams, Krueger

Mus 1-6 Voice

1 semester hour each course

Voice faculty

Six semesters of private vocal study are required of all students except students whose major area of performance is instrumental. Four semesters of vocal study are required of instrumental majors.

Mus 101-108 Advanced Voice

1 semester hour each course

Voice faculty

Eight semesters of private voice study are required of all students whose major area of performance is voice.

The study and application of the physiological and psychological principles of voice production and diction. The material used ranges from rote songs to classic and modern song literature, according to individual ability.

Mus 109-114 Advanced Voice

1 semester hour each course

Voice faculty

For students in this advanced study of voice who have completed by advance standing examinations Mus. 101-108.

PIANO AND ORGAN FACULTY:

CARL, Chairman

Mitchell, Gottlieb, Wilkinson, Sprenkle, Whitten, Beatty, Gangemi, Schick, Hales

Mus 11-16 Piano

1 semester hour each course

Piano faculty

Six semesters of private piano study are required of all music education students.

Mus 111-118 Advanced Piano *1 semester hour each course*

Piano faculty

Eight semesters of private piano study are required of all students whose major area of performance is piano.

Each student receives one-half hour instruction in piano per week. At the end of each semester students are expected to meet minimum requirements in sight-reading, technique, and general musicianship, as determined by examinations before the piano faculty. The study of the piano includes keyboard harmony in the free piano style.

Mus 119-124 Advanced Piano *1 semester hour each course*

Piano faculty

For students in this advanced study of piano who have completed by advanced standing examination Mus. 111-118.

Mus 17-18 Organ Class *1/2 semester hour*

Wilkinson

Designed to acquaint the student with the fundamental techniques of the pipe organ. Emphasis is placed upon methods of practice and study including fundamental pedal techniques, hymn playing, and simple accompaniments. For a limited number of students in the music education curriculum who have met the piano and keyboard requirements. A practical course in service playing for piano majors.

Mus 151-158 Advanced Organ *1 semester hour*

Wilkinson

Individual instruction in pipe organ is offered to familiarize the student with the literature of the instrument and to develop a playing technique. (For a limited number of students in the music education curriculum who have met the piano and keyboard requirements.)

Mus 159-164 Advanced Organ *1 semester hour*

Wilkinson

For students in this advanced study of organ who have completed by advanced standing examination Mus. 151-158.

INSTRUMENTAL FACULTY: Carson, *Chairman*

Middleton, Johns, Barrow

Mus 21-22—Violin *1 semester hour*

Johns

Two semesters of class instruction in violin, two hours per week, are required of all music education students. Tone production, fingering, and technique are stressed.

Mus 121-128 Advanced Strings *1 semester hour*

Johns

A minimum of four semesters of private study are required of all students whose major performing area is string instruments. Repertoire and public performance are stressed.

Mus 129-134 Advanced Strings *1 semester hour*

Johns

For students in this advanced study of a string instrument who have completed by advanced standing examination Mus. 121-128.

Mus 31-32 Clarinet *1/2 semester hour*

Carson, Boerlin

Two semesters of class clarinet, one hour per week, are required of all music education students. Tone production, embouchure, fingering, and technique are stressed.

Mus 131-138 Advanced Woodwinds *1 semester hour*

Carson, Boerlin

A minimum of four semesters of private study are required of all students whose major performing area is woodwind instruments. Repertoire and public performance are stressed.

Mus 139-144 Advanced Woodwinds *1 semester hour*

Carson

For students in this advanced study of a woodwind instrument who have completed by advanced standing examination Mus. 131-138.

Mus 41-42 Trumpet *1/2 semester hour*

Barrow

Two semesters of class trumpet, one hour per week, are required of all students.

Mus 141-148 Advanced Brasses *1 semester hour*

Barrow

A minimum of four semesters of private study are required of all students whose major performing area is brass instruments. Repertoire and public performance are stressed.

Mus 149-154 Advanced Brasses *1 semester hour*

Barrow

For students in this advanced study of a brass instrument who have completed by advanced standing examination Mus. 141-148.

Mus 51 Percussion *1/2 semester hour*

Barrow, Boerlin

One semester of percussion is required of all music education students.

Mus 52-53 Instruments (Elective) *1/2 semester hour*

Instrumental faculty

After having met the instrumental requirements in Violin, Clarinet, and Trumpet, the following instruments are elective through class instruction: viola, cello, bass, flute, oboe, bassoon, horn, trombone, baritone, tuba, percussion. For those advanced students who are interested in small ensemble groups in woodwinds, brass, or strings, opportunity is given to survey literature for such ensembles and to study ensemble style by participation.

Mus 71-78 Orchestra (Elementary) *1/3 semester hour*

Boerlin

A minimum of two semester hours of orchestra is required of all music education students.

Students review and perform orchestra music of first, second, and third grade difficulty, suitable for use with school and community orchestras.

Mus 171-178 Symphony Orchestra *1/2 semester hour*

Middleton

Eight semesters are required for all students who qualify for the Symphony Orchestra.

The Symphony Orchestra prepares music for its major programs from the standard symphonic repertoire and also accompaniments for the Student Recitals which feature vocal and instrumental majors capable of performing with full orchestra. Almost half of the time each year is spent on sight-reading as much standard symphonic literature as possible. Membership in the orchestra is determined by audition.

Mus 81-83 Band (Elementary) *1/3 semester hour*

Boerlin

A minimum of two semester hours of band is required of all music education students.

Students review and perform band music of first, second, and third grade difficulty suitable for use with school and community bands.

Mus 91-98 Band (Intermediate) *1/3 semester hour*

Boerlin

A training organization for the study and performance of band literature of medium difficulty. This band is also open to students from the Elementary, Secondary, and Health and Physical Education curriculums for extra-curricular credit.

Mus 181-188 Concert and Marching Band *1/2 semester hour*

Carson, Boerlin

Eight semesters are required of all music students who qualify for the Concert and Marching Band.

Open to men and women of any curriculum. Music for the Concert Band includes band music used at state festivals. Admission by tryout.

Mus 332 Instrumental Conducting *2 semester hours*

Middleton, Carson

A study, theoretical and practical, of the conducting of various types of instrumental groups. Instrumentation, interpretation, balance, and score reading are studied, discussed, and practiced. Emphasis is placed on the development of adequate rehearsal techniques and skills. Physical elements which can improve or handicap a performance are discussed. Typical works of the late 18th and early 19th centuries are prepared and conducted from full score. Both semesters.

CHORAL FACULTY: JONES, *Chairman*

Sheppard, Sweet, Williams

Mus 61-66 Chorus *1/3 semester hour*

Choral faculty

A minimum of six semesters is required of all music education students.

Mus 161-168 Choir *1/2 semester hour*

Jones

Eight semesters are required of all students who qualify for the College Choir.

A study of choral works with these topics especially stressed: breathing, interpretation, tone quality, enunciation, and diction. Works suitable for junior and senior high schools and colleges are studied, and special attention is given to preparation and public performance in these works.

Mus 331 Choral Conducting *2 semester hours*

Jones

A practical application of conducting and vocal techniques to chorus direction is made through actual practice in conducting a choral group. Score reading, rehearsal techniques, and other related subjects are studied with reference to the maintenance of an effective chorus program in the schools. Both semesters.

ELECTIVE: OPEN TO ALL STUDENTS

Mus 7-10 Applied Music (Elective) *1 semester hour*

Music faculty

Students in any curriculum may elect to study piano, voice, or some instrument, and receive credit upon demonstration of satisfactory progress. One lesson each week. Course placement will depend upon the student's background.

REQUIRED COURSES IN MUSIC FOR ELEMENTARY EDUCATION STUDENTS

Mus 50 Fundamentals of Music *no credit*

Beatty, Gutscher, Boerlin

A course given to those students in the Elementary Curriculum who do not meet the prescribed requirements of a Standard Achievement Test in music. Fundamentals of Music includes the study of intervals, scales, measure and key signatures, simple and compound rhythms, notation and terminology, and the application of this knowledge to the reading simple music. Prerequisite to Music for the Elementary Grades. Both semesters.

Mus 220 Fine Arts *3 semester hours*

See course description under Music: Humanities.

Mus 251 Music for the Primary Grades *3 semester hours*

Beatty, Gutscher

A course designed to equip the graduate, under supervision, to help in the enrichment of the music program in the primary grades of the public schools. Special emphasis is given to the student's acquiring a knowledge of the piano keyboard, voice production, elementary theory, rhythm, and form. In addition, various teaching methods and the use of materials that function in the program are presented: singing, also rhythmic listening, creative and instrumental activities keyed to the needs of the elementary child. Type lessons for the primary grades are

taught by the student and constructively evaluated; observation of music in the schools is incorporated. Both semesters.

Mus 252 Music for the Intermediate Grades *3 semester hours*

Beatty, Gutscher

A course designed to equip the graduate, under supervision, to help in the enrichment of the music program in the intermediate grades of the public schools. Special emphasis is given to the student's acquiring a knowledge of the piano keyboard, voice production, elementary theory, rhythm, and form. In addition, various teaching methods and the use of materials that function in the program are presented: singing, creative and instrumental activities keyed to the needs of the child in the intermediate grades. Type lessons for the intermediate grades are taught by the student and constructively evaluated; observation of music in the schools is incorporated. Both semesters.

ELECTIVE COURSES IN MUSIC FOR ELEMENTARY EDUCATION STUDENTS

Mus 100 Foundations of Music *3 semester hours*

(See course description listed under MUSIC: Humanities)

Mus 327 Teaching Music Appreciation in the Elementary Grades *3 semester hours*

(See course description on page 163). Summer session.

Mus 401 Piano Class (Elementary Teachers) *3 semester hours*

Carl, Sprenkle

Functional study of the piano through class lessions so that the elementary teacher may use the instrument as a means of broadening the elementary music program into the integrated Elementary Education Curriculum. Piano accompaniments for classroom singing and rhythmic and creative activities are stressed through study, demonstrations, and teaching of practical classroom materials. A course desiged primarily for the in-service elementary classroom teacher. Summer session.

Applied Music *1 semester hour*

Music faculty

Students in any curriculum may elect to study piano, voice, or some instrument, and receive credit upon demonstration of satisfactory progress. One lesson each week.

REQUIRED COURSE IN MUSIC FOR SECONDARY AND PHYSICAL EDUCATION STUDENTS

Mus 220 Fine Arts (Music) *3 semester hours*

(See course description listed under MUSIC: Humanities).

NOTE: Many of the courses in the Music Curriculum are available to students in other departments. There are no fees for the students that qualify in the larger musical organizations, which are considered extra-curricular for non-music majors.

PUBLIC SCHOOL NURSING COURSES

PSN 300 Public School Nursing *2 semester hours*

Schoel

Deals with the special training in public school nursing as a branch of public health nursing, including historical background, the various fields it covers, the problems and limitations that are involved. Responsibilities of the nation, state, community, school board, administrators, and the school nurse are studied. The new techniques of handling children with heart disease, communicable diseases, sight and hearing problems, crippled children, mentally retarded, those incapable of being educated, and accident prevention are included.

PSN 302 Public Health Nursing I *3 semester hours*

Schoel

A survey of the fundamental principles and the historical background of public health work in Europe, England, and America. Much stress is placed on the recent movement to bring this work up to date in our own state and the training and procedures by which it is to be accomplished. Careful consideration is given to the social changes in medicine, preventive techniques, population trends, modern ideas of sanitation and sewage disposal, the handling and marketing of foods, housing conditions of today, methods of record keeping, Civil Service procedures, and limitations as they concern the nurse.

PSN 303 Public Health Nursing II *3 semester hours*

Schoel

A continuation of Public Health Nursing I. Deals with the past history and modern practices of maternity care, infant care, child welfare, dental care, teaching proper techniques in the home, care of the

crippled, handicapped in sight, hearing, and the aged. The vast opportunities open today in social work for the public health coordinator or leader in community health movements are an important aspect of the course.

PSN 304 Foundations of Nutrition *3 semester hours*

Schoel

A review of nutrition from the chemical make-up of foods to the use our body makes of them and how we evaluate that use. The part the nurse plays is covered in the following fields: teaching of nutrition in schools, homes, institutions to individuals, to community organizations in regard to the proper feeding of infants, mothers, adolescents, the middle aged, the aged, the obese, those suffering from allergies, those with chronic diseases, and alcoholics. Offered in summer session only.

PSN 305 Family Case Work *3 semester hours*

Schoel

A study of the processes of interviewing and making case studies of family groups. The history and sociology of the American family is used as background for study. Lectures, reports, and seminar techniques are employed. Summer session only.

PSN 306 Prevention and Control of Communicable Diseases *3 semester hours*

Schoel

The course is designed to help the school nurse to gain a more comprehensive understanding of these communicable diseases which are creating current health problems in our communities. Special emphasis will be placed upon the school nurse's role as a member of the school health team in the prevention and control of communicable disease problems.

SCIENCE DEPARTMENT

Mr. Gordon, *Chairman of the Department*

Mr. Trezise, *Vice-Chairman*

Miss Greenwood, Mr. Trezise, Mr. Braddock-Rogers, Mr. Skillen, Mrs. Bliss, Mr. McDonnell, Mr. Rickert, Mr. Jones, Mr. Dorchester, Mr. Reynolds, Miss Cinquina, Mr. Hawkes, Mrs. Schoel.

General Courses

Sci 100 Basic Biological Science *3 semester hours*

Bliss, Greenwood, McDonnell, Skillen, Dorchester

A course dealing with the principles of biology. Topics include cellular structure and physiology, growth and repair, reproduction and de-

velopment, control, sources of food energy, inheritance, and man's interrelationship with his biological environment. The classification of plants and animals is reviewed briefly. Both semesters and summer sessions.

Sci 150 Basic Physical Science *3 semester hours*

Rickert, Reynolds, Braddock-Rogers, Hawkes

This course utilizes the fields of earth science and astronomy to provide a broadened background of science. The nature and uses of energy is the central theme for the study of heat, light, chemical, electrical, and atomic energy. Emphasis is placed on the methods of scientists in recognizing and solving problems. Both semesters and summer sessions.

Sci 250 Science for the Elementary Grades *3 semester hours*

Greenwood, Jones

A course following the year of basic science designed to provide the elementary teacher with a more adequate background for teaching science in the elementary school. Units or problems are selected to achieve this purpose which cut across various fields of science. Emphasis is placed upon developing resourcefulness, in gathering data, and using scientific methods in the solution of such problems. Prerequisites: Basic Biology and Basic Physical Science, or acceptable equivalent courses. Both semesters and regular summer session.

Sci 251 Matter and Energy *3 semester hours*

Rickert and staff

Understanding of motion, heat, electricity, and the structure of matter advanced beyond the levels usually attained in Basic Physical Science. Such theories as relativity and the quantum theory will be discussed on a qualitative basis. This course is recommended as an elective for students in Elementary Education and others who do not choose a Physics or Chemistry elective. Cannot be used to satisfy requirements for a field of specialization in Science. Prerequisite: Basic Physical Science. Spring Semester and Summer Sessions.

Sci 252 Earth Science *3 semester hours*

Rickert and staff

Forces bringing about changes in the earth's crust applied to the problem of explaining present and past changes. Diastrophism, vulcanism, erosion, and sedimentation will be included. Physical changes in the atmosphere will be studied as major influences governing the weather. Finally, the earth will be considered as a member of the solar system. This course is recommended as an elective for students in Elementary Education who have completed Science 150 (Basic Physical Science). Not open to students who have received credit for Geog. 205, 206; 301 or

302. Cannot be used to satisfy requirements for a field of specialization in Science or Geography. Fall Semester and Summer Sessions.

Sci 350 Teaching Science in Secondary Schools

3 semester hours

McDonnell

A course planned to give the prospective science teacher a thorough grounding in the problems. The objectives of the science program in the secondary school, selection of textbooks, sources of suitable literature, how to secure materials for instruction, the preparation of units, and special techniques are studied. Prerequisites: 12 hours of work in major field. Fall semester. May be offered in Summer Session.

Biology

Bio 111 Botany I

4 semester hours

Bliss, Gordon

Botany I is a study of flowering plants. Topics include the structure and life processes of plant cells, leaves, stems, roots, flowers, seeds, and fruits. The economic importance of plants used by man and the recognition and classification of seed plants in the immediate environs of the College are included. Fall semester.

Bio 112 Botany II

4 semester hours

Bliss, Gordon

Botany II is concerned primarily with the non-flowering plants. It considers both the structure and life processes of selected algae, bacteria, fungi, mosses, ferns, and their allies. The economic importance and health implications of certain of these groups are emphasized. The recognition and classification of non-flowering plants in the immediate surroundings are stressed. Spring semester.

Bio 141 Zoology I

4 semester hours

McDonnell

A study of the life history, habits, origin, development, physiology, and anatomy of representative life forms in each phylum of the invertebrates. Emphasis is given to the study of those forms of economic importance. The student becomes acquainted with many invertebrate species found locally. Fall semester.

Bio 142 Zoology II

4 semester hours

McDonnell

A study of the chordates in general, and more particularly the

classes of vertebrates. Topics studied include the anatomy, physiology, origin, development, and life history of representative members of each class. Special attention is given to the vertebrates found in the vicinity of the College. Spring semester.

Bio 210 Field Botany *3 semester hours*

Gordon

A course giving methods useful in the study of plants in their natural surroundings. The use of keys, botanical manuals, and illustrated floras to identify living specimens will constitute a major activity.

Prerequisites: Basic (College) Biology or two semesters of Botany. Fall semester of 1962 and in alternate years; also during summer session.

Bio 241 Field Zoology *3 semester hours*

McDonnell

A course to familiarize teachers with the animal life in the surrounding localities. Considerable attention will be given to the use of keys, charts, books, and museum specimens as guides to the identification and classification of various animals. Field trips will be taken to observe, collect, and study animals as well as their habits. Prerequisite: Basic (College) Biology or at least one semester of Zoology. Spring semester of 1963 and (in) alternate years; also during summer sessions.

Bio 242 Ornithology *3 semester hours*

Greenwood, Jones, Skillen

An introduction to the birds of Pennsylvania with special emphasis on the identification of birds in the field. Lectures deal with classification, migration, habitat preference, song, courtship, nesting and rearing of young, and plumage changes. Abundant field work gives practice in identification of native birds by their songs, behavior, form, and plumage. Prerequisite: Basic (College) Biology or at least one semester of Zoology. Spring semester; also in summer pre-session.

Bio 261-262 Anatomy and Physiology, I and II *6 semester hours*

Dorchester, McDonnell, Skillen, Trezise

A continuous two semester course of study of the human body structures and their functions. Body systems will be presented as individual units with concurrent analysis of anatomical and physiological features as they relate to the human body as an integrated whole. Major emphasis will be placed on the musculo-skeletal system.

Laboratory sessions will consist of osteology, animal dissection, and small animal experimentation that has a direct relationship to human physiology.

Three hours of lecture and two hours of laboratory per week. Both semesters and summer session.

Bio 301 Genetics *3 semester hours*

Bliss

A course giving the student an understanding of the laws of inheritance as they operate in plants, animals, and humans. Cell structure, Mendelian inheritance, eugenics, linkage, probability, crossing over, and random assortment are all considered. Prerequisites: six hours of biology. Spring semester.

Bio 301E Basic Genetics *3 semester hours*

Bliss

A course for non-major students based on the study of the Mendelian Laws of Inheritance. Mitosis, meiosis, and cell structure will be reviewed. Mechanics of monohybrid and dihybrid crosses, linkage, crossing-over, and probability will be considered. Practical applications related to elementary teaching will be stressed. Not open to Science Majors. Fall semester.

Bio 243 Comparative Anatomy *3 semester hours*

McDonnell

Comparative anatomical study of organ systems of various classes of chordates. Laboratory work involves a thorough dissection of an agnathan, a chondrychthyan, an osteichthyan, an amphibian, a bird, and a mammal. Prerequisites: Zoology II.

Bio 302 Ecology *3 semester hours*

Gordon, Jones

A study of plants and animals in relation to their physical and biological environments. Special topics include distribution, factors affecting distribution, life zones, food chains, and adaptations. Attention is given to plant and animal communities in Pennsylvania. Individual problems may be assigned. Prerequisites: six hours of biology or permission of the instructor. Spring semester of 1963 and alternate years.

Bio 310 Microbiology *3 semester hours*

Trezise

A study of microscopic forms of life which are commonly encountered in biological work. Some emphasis is placed on the study of disease producing species likely to affect man and his domesticated animals. Methods of culturing forms used in high school teaching are studied. Prerequisites: Botany I and II, Zoology I and II. Spring semester of 1962 and alternate years.

Bio 340 Freshwater Biology *3 semester hours*

Gordon, McDonnell

An introduction to the ecology, morphology, and taxonomy of local freshwater plants and anmals. Field trips will stress identification

of habitats, collecting techniques, and interrelationships of plants and animals in their natural environments. Pre-requisites: One semester of Botany and one semester of Zoology; or equivalent in General Biology.

Bio 341 Entomology *3 semester hours*

McDonnell

A general study of insects, including structure, physiology, economic importance, classification, and relationships. Each student is required to participate in field trips and to complete a project including a collection and report on some group of insects. Prerequisite: Basic Biology or Zoology I. Spring semester of 1962 and alternate years.

Bio 343 Parasitology *3 semester hours*

Trezise

A consideration of the anatomy, physiology, life history, and habits of representative parasites of man and his domesticated animals. Means of prevention, detection, and control are emphasized. Special attention is given to those forms likely to be encountered in the area of the College. Prerequisites: Zoology I and II. Fall semester of 1962 and alternate years.

Bio 343 Mammalian Anatomy *3 semester hours*

McDonnell, Trezise

A systematic approach to the study of the structure of mammals with considerable emphasis on human anatomy. Laboratory activity includes dissection of organs of large mammals, particularly bovine heart, brain, lung, and kidney. In addition, students become familiar with the human skeleton, with anatomical charts and models, and with the dissectible human mannikin. Prerequisite: Zoology II. Fall semester of 1963 and alternate years.

Bio 344 Basic Physiology *3 semester hours*

Dorchester

A course in Elementary Human Physiology, covering the physiology of the various systems in the human body. This course may not be taken for credit by liberal arts candidates in the department of Science. Prerequisites: Zoology I and II. Fall semester of 1962 and alternate years.

Bio 345 Plant Physiology *3 semester hours*

Gordon

A study of structural systems and processes within living plants. Water relations, syntheses of foods and other components of plant tissues will be emphasized. Growth modifiers, dormancy in buds and

seeds, and the peculiar movements of plant parts are among the practical topics considered. Prerequisites: Botany I and II or equivalent. Fall semester of 1963 and alternate years.

Bio 351 Embryology *3 semester hours*

Bliss, Trezise

Involves lectures on experimental analysis of embryonic development. Some microsurgical methods will be employed. Techniques related to the study of the embryology of the chick, pig, and human will be discussed and are included in the laboratory work. Reference will be made to certain developing structures in the amphibians and fishes that are correlated. Seminar periods will be scheduled. Prerequisite: Mammalian Anatomy or equivalent. Spring semester of 1962 and alternate years.

Bio 355 Wildlife Conservation *3 semester hours*

Gordon, Jones

A field course in which emphasis will be placed on principles of conservation of plants and animal resources. Wildlife refuges, nature preserves, state parks, forests and game lands will be visited. Pertinent literature will form the basis of collateral reading assignments. Active membership in a nationwide organization concerned with wildlife protection will be encouraged. Prerequisite: Basic (College) Biology or three semesters of Botany and Zoology. Fall semester.

Bio 401 Histology *3 semester hours*

Bliss, Trezise

The study of animal tissues, involving examination of the structure and physiology of absic types. Relationships of tissues to cells and to organ systems will be studied. Laboratory work will be required for preparation of whole mount, smears, and tissue sections for microscopic study. Some histological pathology of major organs and systems will be included. A few seminar periods will be scheduled. Prerequisites: Anatomy and Physiology or equivalent Biology courses. Spring semester of 1963.

Bio 402 Cytology *3 semester hours*

Plant and animal cells are studied with particular reference to the processes of reproduction, growth, and differentiation. Theories concerning the functions of the various structures will be discussed. Laboratory work will be assigned. Informal seminars will form a basic part of this course. Prerequisites: Invertebrate Zoology, two semesters of General Biology, or equivalent. Contingent upon demand.

Bio 411 Plant Taxonomy *3 semester hours*

Gordon

Scientific bases for the classification of vascular plants. Students will make their own collections of flowering and fruiting specimens. Work in the laboratory will consist of plant analysis, with the object of placing unknown plants in their respective taxa. These activities will be supplemented with visits to several botanical gardens, conservatories, and natural history museums. Prerequisites: Botany I and II and Field Botany. Spring semester of 1964 and alternate years.

Bio 427 Experimental Cellular Physiology *3 semester hours*

Trezise

A course which will meet the requirements of an honors course. It is particularly designed for those who are beginning a research career in the biological sciences. It will cover carefully selected experiments dealing with protozoa, simple multicellular plants and animals leading to the more detailed experiments on muscle physiology. Prerequisites: On the permission of the professor in charge. 1 hour seminar and 3 laboratory periods per week.

Bio 450 Biology Seminar *3 semester hours*

Staff

Reports on special topics and current developments in the biological sciences. Prerequisite: 24 credit hours in biological sciences.

Biol. 452. Special Problems in Biology *1 to 3 semester hours*

A tutorial course for advanced undergraduates who are judged capable of doing independent study and research on a minor problem. An opportunity is provided to investigate details of anatomy, behavior, physiology, variations within a species, and inter-relations of plants and animals. To be arranged by permission of a professor or associate professor.

Chemistry

Che 120 General Chemistry (for Health Education students only) *3 semester hours*

Braddock-Rogers and staff

Required of all students of health and physical education but does not satisfy the requirements in chemistry for science majors. Includes a general study of several of the common elements, several types of prob-

lems, and the fundamental laws of chemistry. A brief study of the periodic table and atomic structure is introduced very early in the semester. Both semesters.

Che 121 Inorganic Chemistry I *4 semester hours*

Braddock-Rogers

The fundamentals of chemical combination. Atomic structure, chemical bonding, the periodic table, oxidation and reduction, solutions, and electro-chemistry are among the topics which are stressed. Fall semester.

Che 122 Inorganic Chemistry II *4 semester hours*

Braddock-Rogers

A continuation of Chemistry 121. Ionization, the modern concept of acids and bases, and an intensive study of the chemistry and industrial aspects of a number of the common and important elements are the subject of this course. Prerequisite: Chemistry 121. Spring semester.

Che 123 Inorganic Chemistry III *4 semester hours*

This is a continuation of Inorganic Chemistry II in which emphasis will be placed on the Industrial aspects of chemistry. This class work is supplemented by selected experiences and trips to neighboring industries. Prerequisites: Inorganic Chemistry I and II. Contingent on enrollment.

Che 221 Qualitative Analysis *5 semester hours*

Braddock-Rogers

A study of the theoretical principles and practices underlying analytical chemistry. It includes study and practice in separating and identifying the cations and anions of the more common elements and radicals. Prerequisites: Inorganic Chemistry I and II. Fall semester of 1961 and alternate years.

Che 222 Quantitative Analysis *5 semester hours*

Braddock-Rogers

Introductory training in the theory and practice of gravimetric, volumetric, electrolytic, and potentiometric analysis. Quantitative calculations and relations are stressed. Prerequisites: Inorganic Chemistry I and II. Spring semester of 1962 and alternate years.

Che 321 Organic Chemistry I *4 semester hours*

Reynolds

A first course in organic chemistry for students majoring in chemistry and related fields. The structural features of organic molecules will be emphasized and their properties related to the functional

groups involved. Aliphatic, aromatic, and alicyclic compounds will be studied side by side. Prerequisite: Inorganic Chemistry II. Fall semester of 1962 and alternate years.

Che 322 Organic Chemistry II *4 semester hours*

Reynolds

A continuation of Organic Chemistry I to include heterocyclic compounds. Prerequisite: Organic Chemistry I. Spring semester of 1963 and alternate years.

Che 325 Physical Chemistry I *4 semester hours*

Reynolds

The first of a two-semester course in physical chemistry. The properties of the states of matter, chemical thermodynamics, thermochemistry, theory of solutions, and homogeneous chemical equilibrium will be discussed at some length. Class work will be supplemented by a laboratory program. Prerequisites: Inorganic Chemistry II, Physics II, and College Algebra and Trigonometry. Quantitative Analysis and Integral Calculus are strongly recommended. Fall semester.

Che 326 Physical Chemistry II *4 semester hours*

Reynolds

A continuation of Physical Chemistry I. The topics to be considered are: heterogeneous equilibria, Phase rule, electrolytic conductance, ionic equilibria, electromotive force, electrolysis, chemical kinetics, atomic and molecular structure, and photochemistry. Laboratory work is also included. Prerequisite: Physical Chemistry I. Spring semester.

Physics

Phy 131 Physics I *4 semester hours*

Hawkes, Rickert

An introductory course in mechanics, heat, and sound. Some of the topics studied are the mechanics of solids, liquids, gases, thermometry, calorimetry, and heat transference, the production and nature of sound waves including musical sounds. Fall semester.

Phy 132 Physics II *4 semester hours*

Hawkes, Rickert

An introductory course in light, magnetism, and electricity. Some of the topics discussed are reflection and refraction, optical instruments, spectra, and interference. The portion devoted to electricity and magnetism deals with the general concepts of magnetism, electrostatics, electrical circuits, generators, motors, and alternating currents. Spring semester.

Phy 231 Mechanics *4 semester hours*

Hawkes

An intermediate course in mechanics of solids, liquids, and gases. An opportunity is provided for a deeper insight into the principles in operation and their practical application. Studies are made of rectilinear and circular motion, work and energy, impulse and momentum, simple harmonic motion, and hydrostatics. Emphasis is placed on qualitative considerations. Prerequisites: Physics I and II and Differential Calculus. Spring semester of 1963 and alternate years.

Phy 242 Analytic Mechanics II *3 semester hours*

Hawkes

A course based on more powerful analytical tools. The translation and rotation of coordinates are studied. Language theorem is used. Considerable emphasis is placed upon the analysis of wave motion from a mechanical viewpoint in which connection Fourier Series are used. Prerequisites: Mechanics I.

Phy 330 General Astronomy *3 semester hours*

Rickert

Recognition of constellations and various components of the solar system using the naked eye and low power telescopes, supplemented by specific textbook assignments. This course is required for certification in the field of Earth and Space Science. Spring semester of 1963 and alternate years.

Phy 331 Electricity and Magnetism *4 semester hours*

Hawkes, Rickert

An intermediate course in general electricity and magnetism. The electric magnetic fields, D.C. and A.C. circuits, capacitance, inductance, electromotive force, and electrical instruments are among the topics developed. Prerequisite: Physics I and II and Differential Calculus. Spring semester of 1964 and alternate years.

Phy 332 Electronics *4 semester hours*

Rickert

A course dealing with the electron, inducing the charge, emission, and velocity of the electron. The fundamentals of vacuum tubes and their circuits and the use of tubes in communications and industry are studied. Prerequisites: Physics I and II. Fall semester of 1963 and alternate years.

Phy 333 Optics *4 semester hours*

An intermediate course in optics. Geometrical and physical optics are included. Reflection and refraction at surfaces, lenses, interference

and diffraction, elementary spectroscopy and polarization of light are discussed. Applications are made in the study of optical instruments. Prerequisites: Physics I and II. Contingent upon demand.

Phy 352 Electronics II *4 semester hours*

Rickert

A second course in electronics, emphasizing primarily solid state electronic devices. Rectifying, oscillating, and amplifying circuits utilizing transistors are studied. Considerable emphasis is placed upon the theory of the solid state required for an understanding of the function of transistors. (4 credits, 3 lecture hours, 3 lab hours.) Pre-requisites: Electronics I.

Phy 430-L Atomic Physics Lab *1 semester hour*

Rickert

Experiments in atomic physics. e/m for the electron, thermionics, e of electron, photoelectric emission, ionization potentials, and radioactivity. (1 credit, 3 hours lab.). Pre-requisites: Atomic Physics or enrollment concurrently.

Phy 431 Modern Physics *3 semester hours*

Rickert

An intermediate discussion of some ideas of modern physics. Emphasis is placed upon fundamental concepts and experimental results. Topics include fundamental particles of matter, qualitative concepts of quantum theory, relativity, the solid state, radioactiviy and other nuclear processes, nuclear structure, and cosmic rays. Prerequisite: Physics I and II. Spring semester of 1964 and alternate years.

Phy 432 Atomic Physics *3 semester hours*

Rickert

A discussion of the atomicity of electricity, matter, and light. Emphasis is placed upon fundamental concepts and experimental results. Topics discussed include the electron, the ideal gas, positively charged particles, line spectra, x-rays, black body radiation, emission and absorption processes, the Bohr atoms and the periodic table. Prerequisite: Physics I and II. Fall semester of 1961 and alternate years.

Phy 442 Introduction to Research *2 semester hours*

Hawkes, Rickert

The work will involve a earch of the literature of physics. Subject matter and topics will be adapted to the needs and interests of individual students. The purpose is to acquaint students with tech-

nical literature and the present state of physics. In exceptional cases, a suitable laboratory problem will be studied. Prerequisites: Senior standing. Spring semester, 1964.

Phy 452 Seminar *1 semester hour*

Hawkes, Rickert

Oral and written reports on approved topics. Variation in topics from year to year depending on the interests and needs of students. Prerequisites: Senior standing. Spring semester, 1964.

SOCIAL SCIENCE DEPARTMENT

MR. FLECK, *Chairman of the Department*

Mr. Vollbrecht, Mrs. Ivins, Mr. Shaffer, Mr. Harding, Mr. Everett, Miss Maneval, Mr. Morgan, Mrs. Shur, Mr. Carlson, Mr. Schooler, Mr. Phillips, Mr. Radetsky

General

SSc 331 Teaching Social Studies in Secondary Schools *3 semester hours*

Shaffer

A course to familiarize prospective teachers with desirable methods which may be used in teaching the social studies. Emphasis is placed on the philosophy, objectives, courses of study, and organization of subject matter for teaching purposes, curriculum materials, procedures, and development. Both semesters and summer.

SSc 332 Teaching Social Studies and Geography in Elementary Schools *3 semester hours*

Shur

A course designed to acquaint students with up-to-date methods of teaching social studies and geography as an integrated program in the new elementary curriculum. It is a survey of methods and techniques, stressing the profitable use of community affairs and resources, and the development of good civic attitudes in social living. It considers techniques in the use of maps, specimens, pictures, and other tools of learning which are of special value in social studies and resources and problems of teacher responsibility in community activities. Student participation in community activities is stressed. Both semesters and summer.

SSc 400 Senior Seminar *3 semester hours*

The senior seminar is an interpenetration and coordination of the social sciences: history, anthropology, economics, geography, govern-

ment and sociology. Investigating a topic, theme or problem selected in advance by the department, the student synthesizes the relationships, contributions, experiences and approaches of the various social sciences to the project under study. Required of social science majors in liberal arts; also open to other qualified seniors.

EUROPEAN TOUR

SSc 300 Seminar in Contemporary European Culture *6 semester hours*

A fully guided tour of Europe with visits to important areas of the major countries. The tour is organized as a seminar with a number of orientation discussions before departure. Opportunity will be provided for questions and discussion periods en route. A term paper, in which the student will be encouraged to do research on some particular facet of the tour, will be required; as well as a general examination (given after completion of the tour) over the material observed by the student during his travels. Every summer.

History

His 101 History of Civilization I *3 semester hours*

Staff

A study of the origin and development of the political, social, economic, and religious institutions which constitute modern civilization, with emphasis upon broad movements to make realistic the information necessary for a proper understanding of the great heritage that is ours in the present day. Fall semester and summer.

His 102 History of Civilization II *3 semester hours*

Staff

A continuation of His 101 from the Reformation to the present. Spring semester and summer.

His 211 History of United States and Pennsylvania I *3 semester hours*

Staff

A survey course in the history of the United States and Pennsylvania from the beginning of the colonial period to the end of the Civil War. Emphasis is placed on the social, economic, political, and intellectual development of our nation in general and our Commonwealth in particular. Fall semester and summer.

His 212 History of United States and Pennsylvania II *3 semester hours*

Staff

A survey course in the history of the United States and Pennsylvania from 1865 to the present. Stress is placed on the impact of the Industrial Revolution on our society, the growth of labor, world power, our part in World Wars I and II, and the activities of our nation in behalf of international organization. Spring semester and summer.

His 218 The Ancient World *3 semester hours*

Harding

A study of the history and culture of the ancient civilizations and of the classical world to the fall of the Western Roman Empire. Special emphasis will be placed on the Hellenic and Hellenistic worlds, and attention will be given to the relationships of this ancient world to that of the Orient. Fall semester of odd years.

His 219 Medieval Europe *3 semester hours*

Ivins

This course covers western development from the fall of Rome to the conclusion of the Renaissance. Emphasis is placed upon the economic, social, political and intellectual developments in the major kingdoms of the West and upon the history of the Universal church. Particular attention is paid to the seigneurial-urban revolution of the eleventh century. Spring semester of odd years.

His 220 Renaissance and Reformation *3 semester hours*

Carlson

A study of the Renaissance and Reformation with particular emphasis on the important political, economic, social, and cultural forces that emerged during this period of transition and ushered in the modern western culture. Emphasis is placed on the evolution of modern states and the rise of individualism. Fall semester of odd years.

His 221 Modern Europe to 1815 *3 semester hours*

Vollbrecht, Shaffer

The purpose of this course is to give a broad view of the Reformation, the development of nationalism, and the revival of science. Emphasis is placed on the Old Regime through a study of the Age of Louis XIV, the rise of Prussia and Russia, imperial rivalries, and the Intellectual Revolution. The course concludes with a study of the French Revolution and Napoleonic Wars. Fall semester.

His 222 Modern Europe Since 1815 *3 semester hours*

Vollbrecht, Carlson

A comprehensive study of the factors contributed by the European people in their national organization through their political, social, and economic activities. The understanding of the casual and intergroup relationships are essentially basic to analysis and interpretations of the difficulties facing the European world today. Spring semester.

His 313 History of Pennsylvania *3 semester hours*

Everett

A study of the founding and development of Pennsylvania from its colonial beginning to the present time. Emphasis is placed on the social, economic, political, and intellectual developments in the different periods of its history. Special attention is given to the diversity of the people, their institutions and problems, and the growth of Pennyslvania to a leading position in our modern industrial world. Fall semester and summer.

His 314 Diplomatic History of the United States *3 semester hours*

Everett

A study of our foreign relations from the beginning of our national history to the present. Such aspects as the growth and influence of a policy of "isolation," the creation and development of the Monroe Doctrine, the changing position of the United States as a world power, and the problems incident to the assumption of the resulting responsibilities. Spring semester of even years.

His 315 Economic History of the United States *3 semester hours*

Fleck

A study of the economic development of the American nation. Emphasis is placed on the economic factors and forces underlying the changes taking place as a young, frontier country, primarily agricultural, emerges as a wealthy and complex industrial power. Special attention is given to the growth of consumption as well as production and to the increasing role of the individual as a primary center of economic interest. Spring semester of odd years.

His 316 History of the American Frontier *3 semester hours*

Shaffer

The study of the westward movement and expansion from colonial times to the end of the nineteenth century with a consideration of the frontier forces which shaped American democratic institutions and ideals. Spring semester of even years.

His 317 History of American Science and Technology *3 semester hours*

Carlson

This course studies the importance of science, invention, and technology in the rise of the American nation. The scope of time is from 1607 to the present and develops the transition from domestic manufacture to the machine age. Special consideration is given to noteworthy scientists, inventors and technologists. Fall semester of even years.

His 318 Constitutional History of the United States *3 semester hours*

Fleck

A study of the growth of the American Constitution from the Philadelphia convention of 1787 to the present time. Notable constituional crises over such issues as nullification, secession, centralization, and presidential power are examined. Particular attention is given to the work of the Supreme Court in successive periods such as the Marshall Era, the Taney Era, the Post-Civil War Era, the New Deal Era, and the Civil Rights Era. Fall semester of even years.

His 321 History of England *3 semester hours*

Fleck

The growth of the people and institutions of England from the conquest by the Anglo-Saxons to the present. The emphasis is placed on the development of those factors that gave rise to the struggle and events that culminated in the establishment of democratic principles and organization in our modern world. Fall semester of even years.

His 322 History of the Far East *3 semester hours*

Shur

A study of the development of the people of China, India, Japan, Indonesia, and the Pacific Islands. Attention is given to their cultures and developmental problems as they are related to each other and to the occident. Spring semester of even years.

His 323 History of the Middle East *3 semester hours*

Harding

A study of the various civilizations that developed in this area with regard to their contributions as they influenced both oriental and occidental achievements. Special emphasis is placed on the modern aspects of their relation to world knowledge and to problems of current international interest. Fall semester of even years.

His 324 History of Latin America *3 semester hours*

Morgan

The development of the Latin American countries from the period of discovery to the present. The economic, social, political, and cultural areas receive special attention first as domestic problems, then as they are related to the various political units involved. The influence of European and American relations as they are reflected in local changes are given consideration. Spring semester of odd years.

His 352 History of the Twentieth Century World *3 semester hours*

Everett

The significance of events in the present century brought out by a study of the growth of capitalism, imperialism, totalitarianism, international jealousies, World Wars I and II, and the attempts of the family of nations to find world peace through international understanding. Fall semester of odd years.

His 326 History of Russia *3 semester hours*

Fleck

A study of the Russians from the time of the Slavic migrations and the Kievan state to the present. Major emphasis is on the period since Peter the Great, with particular concentration on the political, diplomatic, economic and social development of Russia from 1917 to the present day. Spring semester.

Anthropology

Ant 231 Introduction to Cultural Anthropology *3 semester hours*

Radetsky

An introduction to the science of culture; comparative analysis of preliterate technologies, family systems, political organization and religion; emphasis will be on the variety of response exhibited by preliterate and advanced cultures to common human problems.

Ant 331 Human Evolution *3 semester hours*

Radetsky

An intensive introduction to human evolution and race formation; the emergence of evolutionary theory, comparative primate anatomy and behavior, the fossil record, population genetics, climate and race, races of the world. Emphasis will be on the genetic theory of evolution. Some preliminary course work in Biology is recommended.

Ant 332 Social Organization *3 semester hours*

Radetsky

An intensive consideration of types of social groups, their structure and function. Kinship-based groupings, bands, villages and larger units, as well as associations and secret societies, will be considered. Emphasis will be on forms of organization characteristic of preliterate cultures. Prerequisite: Ant 231.

Ant 333 Cultural Dynamics *3 semester hours*

Radetsky

An empirical and theoretical study of culture change. Theories of cultural evolution will be stressed, with some emphasis placed on empirical studies of culture changed. The impact of western civilization on preliterate cultures will be discussed. Prerequisite: Ant 231.

Ant 334 World Ethnography *3 semester hours*

Radetsky

Selective survey of the preliterate cultures of the world, especially those of Oceania, Tropical Africa, and the American Indian. Emphasis will be on the cultures as they were before the changes wrought by contact with the west, although problems of culture change will be discussed. Selection will be made to illustrate various levels of societal complexity.

Economics

Eco 231 Principles of Economics *3 semester hours*

Schooler

A study of the fundamental concepts necessary for an understanding of the operation and problems of a modern industrial economic system. Of basic concern is the explanation of production and consumption activities in our modified capitalistic economy, accompanied by considerable emphasis on the important and urgent problems of unemployment, inflation, economic growth, and concentration of economic power. Attention is given to associated matters such as labor problems, business organization, banking, and the economic role of government. Both semesters and summer.

Eco 332 Contemporary Economic Problems *3 semester hours*

Schooler

This course applies economic principles and economic reasoning to the analysis of today's major economic issues. Of primary importance is the comparison of social costs and benefits of alternative approaches to the resolution of economic problems. Specific problem areas cov-

ered include economic growth, price and employment instability, government intervention and control, income distribution, and international economic relations. Fall semester of even years. Prerequisite: Eco 231.

Eco 333 Consumer Economics *3 semester hours*

Schooler

A major objective of this course is to acquaint the student with the kinds of economic decisions he must make as a consumer. Of equal importance is an analysis of the economic and social consequences of common patterns of consumer decision-making. Specific topics include saving, investment, budgeting, advertising, insurance, housing, medical care, consumer protection, and the consumer and government. Spring semester of even years.

Eco 334 Industrial Relations *3 semester hours*

Schooler

The history of labor-management relations in the United States is surveyed. This provides the background for analysis of objectives sought and policies followed by labor and management in modern industrial relations. The collective bargaining process is examined and its influence in the labor market evaluated. The role of government in industrial relations is thoroughly examined. Spring semester of odd years. Prerequisite: Eco 231.

Eco 335 Money and Banking *3 semester hours*

Schooler

A course designed to portray the place and influence of monetary institutions and policies in a modern industrial economy. The historical evolution of modern monetary systems is traced and is used to aid the explanation of general principles of credit, the effect of monetary policy on economic activity, money and price levels, and the Federal Reserve and the banking system. Prerequisite: Eco 231.

Eco 336 Business and Government *3 semester hours*

Schooler

The general objective of this course is to examine the major ways that government directly modifies the operation of our private-enterprise economy. Particular concern is paid to the pros and cons of public policies which change the extent or nature of competition, those which substitute public for private enterprise, and those which substitute regulation for competition. Prerequisite: Eco 231.

Eco 337 Economic Growth and Development *3 semester hours*

Schooler

A two-fold approach is taken in this course. First is a survey and critical evaluation of general theories of economic development in a capitalist economy. Second is an examination of special problems facing presently underdeveloped countries and regions, and of alternative public policies for attacking these problems. Prerequisite: Eco 231.

Eco 338 International Economics *3 semester hours*

Schooler

This course is a descriptive and analytical examination of the conditions which lead to and shape international economic relationships. Of major concern are the operations of the financial institutions which facilitate trade and other relationships among nations. Specific topics include the balance of trade and payments, disequilibrium and gold flows, exchange rates, quotas and exchange control, and "the dollar shortage." Prerequisite: Eco 231.

Political Science

PSc 231 American Government *3 semester hours*

Staff

A study of the general principles of the American system of constitutional government; special emphasis is placed upon the organization and functions of the national government — legislative, executive, and judicial; the rights and duties of citizenship; the electorate, political parties, civil rights, and the growing regulatory functions of government are carefully treated. Both semesters and summer.

PSc 331 State and Local Government *3 semester hours*

Phillips

The organization, structure, and function of our state. county, and city governments. Consideration is given to modern administrative techniques and methods as they apply to state and local governmental units. Special emphasis is placed upon Pennsylvania state and local governmental organs. Spring semester of odd years.

PSc 332 Comparative Government *3 semester hours*

Vollbrecht

Major attention is given to Great Britain and Soviet Russia as best representing, among foreign governments, the democratic and authoritarian systems. Brief consideration is given to the governments of France, Italy, Germany, and Japan. Frequent comparison and contrasts are drawn between these governments and government in the United States. Fall semester of odd years.

PSc 333 International Relations *3 semester hours*

Harding

A study of the modern economic, social, political, religious, and cultural problems that reflect the influence of international relationships of the nations of the world using the United States as the point of departure. Special attention is paid to the struggle of the people through their representatives in international conferences and organizations to resolve their differences. Spring semester of odd years.

PSc 334 American Political Parties *3 semester hours*

Phillips

A study of American political parties, pressure groups, and elections. The course covers such topics as party organization, legal control of parties, finance, nominations, the conduct of elections, the right to vote, political machines, bosses, lobbies, and public opinion. Some comparisons are made with the English and French party systems. Spring semester of even years.

PSc 335 American Political Ideas *3 semester hours*

Phillips

Emphasis is placed upon the nature of American political ideas. This includes the English and European backgrounds, the political thought of the American Revolution, and the concepts of democracy and the extensive republic. Political ideas as a response to the industrialization of the society are analyzed. The crisis of individualism and the philosophy of the welfare state are given critical evaluation as an introduction to present democratic thought.

PSc 336 Soviet Government and Politics *3 semester hours*

Phillips

An investigation into the concepts of interest and political power defined within the framework of Soviet ideology. An analysis of how the incompatibilities between Soviet national interest and world revolution as an ultimate goal of Soviet policy are reconciled. Special emphasis is placed upon the impact of the Stalin and Khrushchev regimes upon the utopian Soviet state.

Sociology

Soc 331 Principles of Sociology *3 semester hours*

Maneval

A basic course in sociology dealing with the interaction arising from the association of human beings. Emphasis is placed upon natural and social heritage, the meaning and functions of culture, the origin, func-

tion, and characteristics of social institutions, such as family, religion, and the state; inquiry into the nature and genesis of social pathology. Both semesters and summer.

Soc 332 Contemporary Social Problems

Maneval

An advanced course in sociology. It deals with several problems such as poverty, unemployment, crime, divorce, and mental maladjustment. Lectures, reports, and seminar techniques are used. Fall semester of odd years.

Soc 333 The Family

Maneval

The development of the family and home in its historical, economic, and legal aspects. The various factors influencing the organization, disorganization, and reorganization, of the family are considered, as well as the modern trends in this basic institution. Both semesters and summer.

Soc 334 Juvenile Delinquency

Maneval

The purpose of this course is to meet the needs of those interested in the areas of delinquency, probation, child care and community recreation. The functions of the family, neighborhood, and community will be discussed together with the dangers of social disorganization inherent in our institutions. The social treatment such as character building agencies, probation, and reform schools will be reviewed. The work of the juvenile court process, the child guidance clinic, and counseling will be analyzed. Spring semester of even years.

Soc 335 Racial and Cultural Minorities

Maneval

The condition of minority groups in America, the problems of assimilation of the foreign born, the immigration policy of the United States, race friction, and prejudices and the need for interracial cooperation will be investigated. Fall semester of even years.

Soc 336 Urban Sociology

Maneval

This course deals with the development of the modern city and metropolitan areas; the differentiation of functions; city complexity; demographic characteristics; ecological and social organization; city planning and the city as a way of life with emphasis upon present day reorganization, growth and improvement. Spring semester of odd years.

SUMMER SESSIONS OF 1963

Pre-Sessions (3 weeks) .....June 3 - June 21

Regular Session: (6 weeks) .....June 24 - Aug. 2

Post Session: (3 weeks) .....Aug. 5 - Aug. 23

COLLEGE COURSES FOR TEACHERS

Credit Secured in Summer School

No student will be allowed to secure more credits than the number of weeks in a session except by special permission of the Dean of Academic affairs. A student may enroll for one, two, or all three sessions. By attending all twelve weeks a student can complete twelve semester hours of credit.

Expenses and Fees *

Board and room are $17 a week. The Activity Fee for the Regular Sessions is $3.50 and for the Pre-Session and Post Session $1.75 each. Books must be purchased. They will cost approximately $6.00 per course. A basic fee of $12.50 per semester hour of credit (minimum basic fee—$37.50), covering instructional costs, is charged for legal residents of Pennsylvania for Regular Sessions or $18.75 for Pre or Post-Session; out-of-state students pay at the rate of $20 per semester hour of credit (minimum basic fee, $60 for Regular Session or $30 for Pre or Post-Session). The full expense of any summer session must be paid on the day of registration.

Health and Physical Education

During the Summer Sessions, the College plans to offer courses in the Health and Physical Education curriculum. The courses to be offered will be of collegiate grade and will carry credit toward the B.S. degree in the field of health and physical education. The program will interest and appeal to the following groups of people:

1. Those who are planning to meet requirements for the degree in health and physical education;
2. Graduates of other curricula who now plan to secure teaching certification in the health and physical education field;
3. Teachers in service who are called upon to teach and supervise health and physical education and playground work and who desire to meet the state requirements for this work.

---

*Fees subject to change without notice.

Music Education

During the Summer Sessions the College plans to offer courses in Music Education for three classes of people:

1. Those who are planning to meet requirements for the degree in music education;
2. Supervisors of music in the elementary or secondary schools who are desirous of furthering their musical education;
3. Those who have done advanced or somewhat irregular work in music and who wish to continue their education in the four-year college curriculum.

In the Summer Sessions, courses will be offered only when a sufficient number of students apply for them.

More detailed information about the Summer Sessions will be sent upon request to the Director of Admissions, West Chester State College, West Chester, Pennsylvania.

EXTENSION WORK

Extension courses permitted in the four-year curricula for the preparation of teachers of the public schools:

1. The College adheres to the regulations set up by the American Association of Colleges for Teacher Education. A committee of this Association has recommended that extension credits be limited to thirty-two semester hours in the four-year curricula;
2. Any course in the four-year curricula may be offered by the State Colleges subject to the standards approved by the State Council of Education;
3. Credit for equivalent courses given by other institutions may be given subject to the thirty-two semester hour limit and provided the courses have been given in accord with the standards of the State Council of Education;
4. All instructors of extension classes must be regularly-selected members of the faculty, and the names of all such persons employed must appear in the regular catalogue as members of the faculty.
5. Extension credits previous to June 1, 1941, shall be in accord with the limited list in effect at that time.

COLLEGE COURSES FOR TEACHERS

Each semester a number of courses may be offered in the evenings and on Saturday mornings. These courses are planned for teachers in service who wish to continue their work toward a degree. The courses given are selected from the several curricula and are chosen with the idea of accommodating as many teachers as possible.

The cost of these courses is at the rate of $12.50 per semester hour of credit for legal residents of Pennsylvania. A minimum basic fee of $37.50 will be charged. For out-of-state students the rate is $20 per semester hour (minimum basic fee — $60).

No Activity Fee is charged students who are enrolled in the College Courses for Teachers. The payment of the Activity Fee does, however, entitle the student to participate in all student activities and college activities that are provided for by this fee.

Not more than six semester hours of credit will be allowed for courses completed in any one semester by a student who during such term, is a regularly employed full-time teacher.

The College gladly welcomes any suggestions for courses to be offered evenings and Saturdays. Such requests should be mailed to the Dean of Academic Affairs.

GRADUATE STUDIES

West Chester began offering a program of graduate studies in the Fall semester of 1959. The graduate program has been organized in accordance with plans approved by the Pennsylvania State Council of Education. Classes are scheduled for late afternoons, evenings, and Saturdays during the regular college year. A full-time program of graduate work is offered during the last two weeks of the Pre-Sessions, during the regular six week summer sessions, and during the first two weeks of the Post Sessions.

The graduate program provides for twelve hours of general and cultural courses with an opportunity for specialization at the graduate level in English, geography, social studies, music, mathematics, health and physical education, science, and elementary education, as well as required professional courses in elementary and secondary education.

A breakdown of the enrollment in the Fall semester of 1962 by curriculum produces the following figures:

Secondary Education	113
Elementary Education	62
Physical Education	65
Music	38
Special	10
TOTAL	288

The program has grown approximately 66% since its beginning in 1958. It is designed especially for in-service teachers, and the outlook for the immediate future is that it will most likely tend to be a part-time program in the spring and fall terms and a full program in the summer sessions.

The Graduate Program provides in-service teachers an opportunity to secure permanent certification and earn the Master of Education degree with no interference with their teaching assignments. It permits them to improve their position on salary schedules which recognize graduate study.

Thirty students have received their Master of Education degree since 1961.

A special Graduate Studies Bulletin and further information regarding the graduate program may be secured in writing the Director of Graduate Studies, West Chester State College, West Chester, Pennsylvania.

INDEX

page

Accreditation of the College 2
Administrative Officers 7
Admission:
Application Blank 229
Requirements and Information 65
Advanced Placement Program 47
All-Star Entertainment Program 38
Alumni 51
Art:
Art Faculty 135
Descriptions of Courses 135
Athletics:
Intercollegiate 39
Intramural 40
Women's Intercollegiate Athletic Program 41
Women's Athletic Association 40
Attendance, Class and Assembly 48
Automobile Regulations 53
Board of Trustees 7
Book Store 53
Calendar 28
Camping 106
Certification Requirements 131
Classification of Students 43
College Community Organization and Administration 37
College Courses for Teachers 223
Comprehensive Campus Plans 32
Correspondence and Communications 27
Credit by Examination 46
Curricula Offered:
Elementary Education 83
Health and Physical Education 102
Liberal Arts 116
Music Education 108
Secondary Education 87
Special Education 85
Dental Hygienists Curriculum 110
Dismissal from College 49
Education:
Description of Courses 135
Faculty 135
Employment, Student 61
English:
Description of Courses 144
Faculty 144
Required and Elective Courses 90
Expenses 72
Extra-Curricular Activities Program 53
Faculty 9
Fees 72
Film Libraries 42

INDEX (Continued)

page

French:
Description of Courses 152
Required and Elective Courses 91
Geography:
Description of Courses 159
Faculty 159
Required and Elective Courses 94
German:
Description of Courses 155
Graduate Studies 223
Graduation 50
Health and Physical Education Curriculum:
Description of Courses 164
Faculty 164
Required and Elective Courses 102
Health Service 41
History of the College 31
Honor Roll 46
Housing 52
Insurance 42
Intercollegiate Athletics 39
Latin:
Description of Courses 157
Loans 60
Marking System 44
Mathematics:
Description of Courses 180
Faculty 180
Required and Elective Courses 95
Music Education Curriculum:
Description of Courses 184
Faculty 184
Required and Elective Courses 108
Musical Organizations 38
Pennsylvania Regional Film Library 42
Physical Therapy 107
Placement Service 42
Public School Nursing Curriculum 113
Description of Courses 197
Publications 54
Purpose of West Chester State College 33
Readmission of Former Students 68
Recreation Leadership 105
Regulations:
Concerning Dormitory Guests 53
Concerning Dormitory Students 52
Remedial Instruction 47
Reports to Parents 46
Resident Credit Requirements 48
Russian:
Description of Courses 156

INDEX (Continued)

page

Safety Education 106
Scholarships 55
Scholarship Requirements 45
School Nurse Curriculum 113
Science:
- Biology 96
- Chemistry 97
- Comprehensive Science 95
- Description of Courses 198
- Earth and Space Science 98
- Faculty 198
- General Science 96
- Psysics 98

Secondary Education Curriculum:
- Fields of Specialization
  - Biology 96
  - Chemistry 97
  - Comprehensive Science 95
  - Earth and Space Science 98
  - English 90
  - French 91
  - General Science 96
  - Geography 94
  - German 92
  - Latin 93
  - Mathematics 95
  - Physics 98
  - Russian 93
  - Social Science 99
  - Spanish 92

Selective Service Information 51
Social Science:
- Description of Courses 210
- Faculty 210
- Required and Elective Courses 99
- Social Work 102

Spanish:
- Description of Courses 154

Staff:
- Business Office 22
- Health Service 22
- Operating 23

Student Life:
- Automobile Regulations 53
- Class Load 49
- Dormitory Regulations 52
- Student Government 37

Student Teaching 47
Summer Sessions 30
Transscripts 48
Trustees, Board of 7
Withdrawals:
- From a Course 49
- From a College 48

REGISTRATION

WEST CHESTER STATE COLLEGE

(3-63) (Use Ink)

WEST CHESTER, PENNSYLVANIA

REQUEST FOR APPLICATION FORMS

(to be sent after Sept. 1 of a student's senior year in high school)

1. Name .....
(Last) (First) (Second)

2. Number and Street ..... County .....

3. City ..... Zone ..... State .....

4. When do you wish to enter this College?
Month (September, January or June) ..... 19.....

5. In what curriculum do you wish to enroll?

Elementary Ed.... Secondary Ed.... Physical Ed....

Music Ed.... Liberal Arts....

If Secondary Education or Liberal Arts, list major .....

6. Have you attended any other college? Yes..... No..... If so,

give name of the college .....

7. Do you apply as a Resident Student? ..... Day Student? .....

Date of graduation from High School: Month ..... Year .....

NOTE: When this information has been received by the Director of Admissions, instructions for completing your application will be sent to you. Do **not** send application fee with this form.

Mrs. Ingram

Bulletin

WEST CHESTER STATE COLLEGE

WEST CHESTER, PENNSYLVANIA

CATALOGUE NUMBER
SUMMER SESSIONS
1964

UNDERGRADUATE
GRADUATE

WEST CHESTER STATE COLLEGE

IS ACCREDITED BY

THE MIDDLE STATES ASSOCIATION OF COLLEGES

AND SECONDARY SCHOOLS,

THE NATIONAL COUNCIL FOR ACCREDITATION

OF TEACHER EDUCATION,

THE AMERICAN ASSOCIATION FOR HEALTH,

PHYSICAL EDUCATION, AND RECREATION,

AND THE

NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC

1964 SUMMER SESSIONS

Vol. 92 No. 2

MARCH 1964

Issued six times a year, February, March, April, May, August and October by the Trustees of West Chester State College at West Chester, Pennsylvania.

Entered as second class matter March 3, 1931, at the Post Office at West Chester, Pennsylvania, under the Act of Congress of August 24, 1912.

Second Class Postage Paid at West Chester, Pa.

COMMONWEALTH OF PENNSYLVANIA
STATE BOARD OF EDUCATION
COUNCIL OF HIGHER EDUCATION

Dr. Charles H. Boehm, President
and Chief Executive Officer

Charles G. Simpson	Philadelphia
George G. Gray	Levittown
Dr. Katharine E. McBride	Bryn Mawr
Dr. Otis C. McCreery	Bridgeville
Gail L. Rose	Renfrew
James H. Rowland	Harrisburg
Dr. Leonard N. Wolf	Scranton

DEPARTMENT OF PUBLIC INSTRUCTION

Charles H. Boehm	Superintendent of Public Instruction
George W. Hoffman	Special Deputy Superintendent
Neal V. Musmanno	Deputy Superintendent
Richard Gibboney	Deputy Superintendent

BOARD OF TRUSTEES, WEST CHESTER STATE COLLEGE

Robert R. Batt, President	Ithan
Mrs. Nolan N. Atkinson, Vice-President	Bryn Mawr
Mrs. James John, Secretary	West Chester
Hon. J. Paul MacElree	West Chester
Joseph A. Joyce	West Chester
Mrs. Elizabeth Read Ross	Doylestown
Charles E. Swope	West Chester
John H. Tyson	Upper Darby
Mrs. Susan G. Harney	West Chester

ADMINISTRATIVE OFFICERS

President ..... Earl F. Sykes

Academic Affairs

Dean of Academic Affairs ..... Walter J. Gale
Director of the Undergraduate Program ..... Emil H. Messikomer
Director of the Graduate Program ..... Willard J. Trezise
Director of the Liberal Arts Program ..... Kenneth C. Slagle
Staff Assistant to the Dean of Academic Affairs ..... Arnold Fletcher
Director of Admissions ..... B. Paul Ross
Assistant Director of Admissions ..... F. William Leeds
Registrar ..... Helen E. Shippee
Head Librarian ..... Joseph K. Hall
Principal of the Demonstration School ..... Gerald F. Cartright
Director of Student Teaching and Placement ..... Mark M. Evans

Student Affairs

Dean of Student Affairs ..... Jack A. Owens
Assistant to the Dean of Student Affairs ..... William R. Benner
Dean of Women ..... Bernice H. Bernatz
Assistant Dean of Women ..... Florence B. Ingram
Dean of Men ..... W. Glenn Killinger
Assistant Dean of Men ..... Robert M. Mitten
Director of the Student Activities Association ..... B. Reed Henderson
Director of Athletics ..... Robert W. Reese

Administrative Affairs

Dean of Administration ..... Kenneth R. Widdall
Business Manager ..... Everett E. Shaefer
Assistant Business Manager ..... Robert Crauder
Superintendent of Buildings and Grounds ..... Herbert Clavier
Assistant to the Superintendent
of Buildings and Grounds ..... William A. Peoples

Public Relations and College Publications

Director of Public Relations
and College Publications ..... William Houpt

WEST CHESTER STATE COLLEGE

West Chester State College is accredited by the Middle States Association of Colleges and Secondary Schools; the National Council for Accreditation of Teacher Education; the American Association for Health, Physical Education and Recreation; and the National Association of Schools of Music.

Modern and adequate science laboratories, instructional equipment, and classroom facilities are provided.

The annual All-Star Course brings to the campus some of the world's most famous artists in the fields of music, drama and dance. Among these have been the Pittsburgh, Detroit, National, Cleveland and Minneapolis Symphony Orchestras, the Canadian Players, the Singing Boys of Norway, George London, Isaac Stern, Carmen Amaya, Roberta Peters, the Jose Limon Dance Company, Brian Sullivan, Maureen Forrester, the Columbus Boys' Choir, Blanche Thebom, Jerome Hines, the Dublin Gate Theatre, the Chicago Opera Ballet, and the Robert Shaw Chorale.

The William Pyle Philips Lecture Foundation brings to the campus lecturers who are leaders in the fields of literature, science and world affairs. Among these have been Madame V. L. Pandit, Arnold Toynbee, Harrison Salisbury, Loren Eiseley, Daniel Schorr, Ashley Montague, Walter Sullivan, Robert Frost, Bennett Cerf, Max Lerner and William Teller.

The college Assemblies, which are held approximately twice each month, provide the students, faculty and citizens of the community with an additional series of cultural and professional programs.

In addition to regular courses for preparing Elementary and Secondary teachers, West Chester has two special curricula preparing teachers in Music and Health and Physical Education.

The College offers Liberal Arts curricula in Humanities, Social Sciences, and Natural Sciences leading to a Bachelor of Arts degree.

The College maintains an active Placement Service without cost to graduates.

SUMMER SESSIONS

•

GENERAL STATEMENT

The twelve-week summer sessions are divided into three periods: the Pre Session of three weeks, the Regular Session of six weeks, and the Post Session of three weeks. The schedule includes courses for regular college students, and a number of special offerings for teachers in service.

West Chester State College is located in the beautiful residential town of West Chester, near the historic Brandywine and Valley Forge. Students enjoy the added advantage of easy access to Philadelphia, New York, and Atlantic City.

The College provides for its wide area of service a modern, progressive, and constantly expanding co-educational program. The major aim of the program is the preparation of teachers particularly for the public schools of the Commonwealth of Pennsylvania. Students who have attended summer sessions at West Chester know it is an ideal place to combine serious study with wholesome recreation and student life.

SOCIAL AND RECREATIONAL PROGRAM

A summer at West Chester gives the student an opportunity to pursue college work under the most favorable conditions. The tree-shaded campus, with its conveniently located buildings, provides a beautiful and restful environment.

Opportunities for recreation are many: softball, tennis, swimming, and other recreational activities. Social hours, when the students may talk informally with their professors, are a feature of the Pre and Post Sessions.

The borough and vicinity of West Chester are beautiful and at the same time provide material for study and research in history, science, and the arts. Philadelphia excels in scenic and historic interest, and special trips to the city will be arranged for those interested in taking advantage of these opportunities.

Seeing the world-famous fountains at Longwood Gardens, picnicking and canoeing on the Brandywine, taking advantage of the best in music, art, and the theatre — these are some of the events that make a summer at West Chester much to be desired.

GENERAL INFORMATION

CREDITS

Credits for the summer session may be earned at the rate of one semester hour per week of work; thus, a student attending all three sessions may earn twelve credits.

Students will not be permitted to carry more than six semester hours of work in the Regular Session unless permission to do so has been secured in advance from the Dean of Academic Affairs.

PRE-ADMISSION COURSE CREDIT

Not more than nine (9) semester hours of course work completed at West Chester prior to formal admission to a degree program will be credited toward a degree. In order to obtain degree credit for such pre-admission courses, a minimum grade of "C" must be attained.

HOUSING

There will be adequate housing available for all men and women students for all three summer sessions. The College is unable, however, to provide housing for married students and their families.

After filing an application for admission to the Summer Sessions with the Admissions Office, room reservations should be made through a **written application** to either the Dean of Women's or the Dean of Men's Office **one week prior to the opening** of each session.

Rooms may be occupied after 2:00 P.M. on the Sunday preceding each session.

COLLEGE REGULATIONS

The same college regulations pertaining to student procedure and conduct in effect during the academic year at West Chester State College are effective for the three summer sessions.

ENROLLMENT

Classes will be held in the courses offered subject to enrollment.

REGISTRATION (Undergraduate)

Registration as a student in any summer session does not establish priority or privilege for admission as a student for the regular academic year.

Students who have graduated from high school but have never attended college are not permitted to register in the summer sessions without permission of the Director of Admissions. Such per-

mission **must be secured in advance of registration day.** Persons who have not graduated from high school are not permitted to register in the summer sessions.

Students of other colleges must file with their applications a statement of approval of attendance from the Dean of Instruction of the college they attend. **No application will be accepted without such a statement.**

West Chester students must present their college I.D. cards in order to register.

1. Registration for each summer session will be held in Swope Hall on the opening day of each session.

The College will operate on Daylight Saving Time.

2. Procedure. Application for admission to any or all of the summer sessions may be made by filling in a form which may be secured from the Director of Admissions, West Chester State College, West Chester, Pennsylvania. Upon filing an application, a student may consider himself accepted, unless notified otherwise, and he should report for registration on the day or days indicated in the Summer Sessions calendar.

3. Late Registration. Since the summer sessions are short, it is necessary for students to register at the times indicated as registration periods.

For acceptable reasons, a student may register not more than one day late, for which the late fee is applicable. No additional absences will be permitted to secure full credit for the courses taken.

CLASS MEETINGS AND PERIODS

In each of the three summer sessions classes will be held on all weekdays except Saturdays.

No class cuts are permitted during the Summer Sessions.

Pre and Post Sessions. After registration day, each class will meet twice daily, 8:00-9:30 A.M. and 10:30-12:00 A.M. The hour from 9:30-10:30 is for rest, library work, or recreation. It will not be possible for a student to carry more than one course during either the Pre or Post Session since all courses meet concurrently.

Regular Session. Classes begin on Tuesday and meet once daily (unless otherwise indicated) at the time stated in the schedule.

The schedule for classes during the Regular Session will operate on Daylight Saving Time as follows:

8:00- 9:30 First Period
9:30-11:00 Second Period
11:00-12:30 Third Period
12:30- 1:30 Luncheon
1:30- 3:00 Fourth Period

* F E E S (Undergraduate)

I. Regular Summer Sessions — 6 weeks

1. **Basic Fee** for the Regular Summer Session.

The basic fee is $12.50 per semester hour of credit for students who are residents of Pennsylvania and are pursuing a course leading to a degree or certification in Teacher Education. A minimum basic fee of $37.50 will be charged.

The basic fee is $15.00 per semester hour of credit for students who are residents of Pennsylvania and are enrolled in Arts and Sciences or any curriculum other than Education. A minimum basic fee of $45.00 will be charged.

The basic fee for out-of-state students, regardless of curriculum, is $20.00 per semester hour. A minimum basic fee of $60.00 will be charged.

Students who enroll in the Health Education Curriculum are charged an additional fee of $6.

Those who enroll in the Music Education Curriculum and are taking work toward music certification, but without private lessons, pay an additional music fee of $15.

Students in the Humanities Curriculum of Liberal Arts are charged a fee of $45.00 for one hour lesson if electing individual lessons in piano, voice, organ, or orchestral instrument. If piano practice room is needed, the usual instrument rental of $2.00 will be charged.

Applied music fees for accelerating Music students will be consolidated in the Regular Session, and the music fee will be $45.00.

2. **Housing Fee** for the Regular Summer Session.

The housing fee for students is $102. This includes room and meals.

---

* These fees are subject to change without notice. All charges for a session must be paid on the day of registration.

(1) An additional charge of $3 is made for rooms with running water.

(2) No reduction in the fee is made for absences of a few days at a time.

(3) A student may, at the discretion of the President of the College, occupy a double room by paying an additional $12.

(4) The rate for separate meals is:
Breakfast $0.60
Lunch $0.85
Dinner $1.25

3. **The Student Activities Fee** for the Regular Summer Session is $3.50.

4. **Books Must Be Purchased.** They will cost approximately $10.

5. **Other Charges:**

(1) Music Education Students
A. Pipe organ for practice, $12 per session.
B. Rental of orchestral instruments, $2 per session.

(2) Academic Students
A. The fee of $37.50 will be charged for individual, one-hour lessons in voice, piano, organ, band, or orchestral instruments, plus the credit fee.
B. Rental of piano or orchestral instruments for practice, $2 per session.
C. Rental of pipe organ for practice, $12 per session.

(3) Private voice and piano lessons for Music Education students carry one extra credit costing $12.50. Chorus, Band and Orchestra carry one-half hour credit. (This is in addition to the regular $45 music fee.)

(4) Late Registration Payment — $1 for one day.

(5) Degree Fee—$5 to be paid by each candidate for a degree.

II. Pre-Session and Post-Session

1. **The Basic Fee** for Pre and Post Sessions:

The basic fees are the same as for the Regular Summer Session, see Section 1, above, with the exception of the minimum charges which are as follows for the Pre and Post Summer Sessions:

(1) Residents of Pennsylvania—Education Curriculum _$18.75
Residents of Pennsylvania—Other Curricula _____$22.50

(2) Out-of-State residents—All Curricula ... $30.00

Students in either of these sessions who enroll in the Health and Physical Education Curriculum are charged an additional fee of $3.

Those who enroll in the Music Education curriculum and take work toward music certification, but without private lessons, pay an additional music fee of $7.50.

2. **Housing Fee** for Pre and Post Sessions:

The housing fee for Pre and Post Sessions is $51.00 for each session. The fee includes room and meals.

3. **The Student Activity Fee** for Pre and Post Sessions is $1.75 for each session.

4. **Books Must Be Purchased.** They will cost approximately $8.

5. **Other Music Charges** — for each session, one-half of those listed under Section 5 above for the Regular Session.

OPPORTUNITIES FOR EMPLOYMENT AND LOANS

Students interested in securing employment should consult the Dean of Student Affairs. Full information concerning student loans will be found in the general college catalog.

PLACEMENT

The Placement Bureau of the College offers excellent opportunities for employment in teaching. Graduates are invited to make use of this bureau without cost.

CERTIFICATION OF TEACHERS

School Laws of Pennsylvania, Section 1202. State Certificates —

"State certificates shall be issued as herein provided. Each such certificate shall set forth the branches which its holder is entitled to teach. No teacher shall teach, in any public school, any branch which he has not been properly certificated to teach . . . .

"A certificate to teach shall not be granted or issued to any person not a citizen of the United States, except in the case of exchange teachers not permanently employed and teachers employed for the purpose of teaching foreign languages."

Provisional College Certificate

A student who satisfactorily completes one of the curricula offered by the College receives his degree from the College and qualifies for a Provisional College Certificate which is issued to him upon application to the Department of Public Instruction, Harrisburg, Pennsylvania.

In the elementary field this certificate qualifies the holder to teach in the public elementary schools of Pennsylvania for three years.

In the secondary field this certificate qualifies the holder to teach the subjects written thereon in the public secondary schools of Pennsylvania for three years.

In health education and music education the certificate qualifies the holder to teach the special subject in both elementary and secondary public schools of Pennsylvania for three years.

Permanent College Certificate

The Permanent College Certificate requires three years of successful teaching in the public schools of this Commonwealth under the Provisional College Certificate and the satisfactory completion of twelve semester hours of additional work of collegiate grade, completed subsequent to the issuance of the baccalaureate degree. One-half of the additional work must be professional and the remainder related to the subject or subject fields on the certificate. This certificate is then a permanent license to teach.

Extension of College Certificates

1. A college certificate valid for the secondary field may be extended to include the elementary field by completing twenty-four semester hours of approved courses in the field of elementary education, distributed as follows: a course in the teaching of reading; the remainder selected from a minimum of four of the following areas: mathematics, arts and crafts, music, physical education, language arts, sciences, social studies, geography, mental hygiene, or a course dealing with exceptional children.

2. A college certificate valid for the elementary field may be extended to include any subject of the secondary field by completing eighteen to forty semester hours in a secondary subject, depending upon the area of specialization.

3. A college certificate valid for the secondary field may be extended to include additional academic subjects when the holder has completed the number of semester hours required for the subject field.

Certification in Other States

Concerning the requirements for certification for teaching in other states, students should consult the Dean of Academic Affairs.

LIBERAL ARTS PROGRAM

All students enrolled in the Program are required to complete 128 semester hours of credit, approximately half of which are devoted to general studies concentrated primarily in the freshman and sophomore years.

These studies consist of courses distributed among four areas: a basic core of courses in English composition, speech, a foreign language at the intermediate level, philosophy, literature, art, music, history of civilization, anthropology, sociology, economics, political science, geography, psychology, a choice of a biological or physical science, and mathematics and/or logic.

To supplement his general academic studies, the student is also required to take a course in health and physical education in each of four semesters.

Upon completing the above, the student elects one of three broad fields of concentration: humanities, social sciences or natural sciences.

UNDERGRADUATE PROGRAM

SUMMER CALENDAR 1964

1964 PRE-SESSION

Registration ---------- Monday, June 8
Students will register alphabetically according to last name:
8:30-11:30 A.M. ---------- A through L
1:30- 4:00 P.M. ---------- M through Z
Classes begin 8:00 A.M. ---------- Tuesday, June 9
Classes end ---------- Friday, June 26

1964 REGULAR SESSION

Registration ---------- Monday, June 29
Students will register alphabetically according to last name:
8:30-11:30 A.M. ---------- A through L
1:30- 3:30 P.M. ---------- M through Z
Classes begin ---------- Tuesday, June 30
Classes end ---------- Friday, August 7

1964 POST-SESSION

Registration ____ Monday, August 10
Students will register alphabetically according to last name:
8:30-10:00 A.M. ____ A through L
10:00-11:30 A.M. ____ M through Z
Classes begin 1:30 P.M. ____ Monday, August 10
Classes end ____ Friday, August 28

THE ACADEMIC YEAR

1964 - 1965

FALL SEMESTER

Last day to qualify for admission ____ August 15
Faculty and Department meetings ____ Tuesday, Sept. 8
Registration
Freshmen ____ Wednesday, Sept. 9
Sophomores and Seniors ____ Thursday, Sept. 10
Juniors ____ Friday, Sept. 11
Readmission, Transfer, and
Special Students ____ Friday, Sept. 11 (p.m.)
Part-time and Graduate Students ____ Saturday, Sept. 12
Freshman Classification Tests ____ Thursday, Sept. 10
and Friday, Sept 11
Freshman Orientation ____ Friday, Sept. 11
Classes begin ____ Monday, Sept. 14
Thanksgiving Recess
Begins — close of classes ____ Tuesday, Nov. 24
Ends — 8:00 a.m. ____ Monday, Nov. 30
Christmas Recess
Begins — close of classes ____ Saturday, Dec. 19
Ends — 8:00 a.m.
Undergraduate ____ Monday, Jan. 4
Part-time and Graduate ____ Monday, Jan. 4
Final Examinations ____ Thursday, Jan. 14-22
Commencement ____ Thursday, Jan. 21
Fall semester ends ____ Friday, Jan. 22

SPRING SEMESTER

Last day to qualify for admission ____ Jan. 10
Registration
Part-time Students ____ Saturday, Jan. 23
Freshmen and Seniors ____ Monday, Jan. 25
Sophomores and Juniors ____ Tuesday, Jan. 26

Classes begin
Part-time and Graduate ..... Monday, Jan. 25
Undergraduate ..... Wednesday, Jan. 27
Washington's Birthday Recess
Begins — close of classes ..... Saturday, Feb. 20
Ends — 8:00 a.m. ..... Tuesday, Feb. 23
Spring Recess
Begins — close of classes ..... Saturday, Mar. 20
Ends — 8:00 a.m. ..... Monday, Mar. 29
Easter Recess
Begins — close of classes ..... Thursday, April 15
Ends — 8:00 a.m. ..... Tuesday, April 20
Final Examinations ..... Thursday, May 13 to Thursday, May 20
Alumni Day ..... Saturday, May 22
Commencement ..... Sunday, May 23

SUMMER SESSION

1965

Pre-Session ..... June 7 - June 25
Regular Session ..... June 28 - August 6
Post Session ..... August 9 - August 27

ACADEMIC YEAR — Undergraduate

1964-1965

HOUSING

The college has made provisions for the housing of its resident students. It may be impossible to provide housing for all students who apply for admission. Although College authorities are embarrassed by this situation, there is nothing that can be done about it in this period of serious housing shortages. It is very important that all housing arrangements for both upperclassmen and new students be satisfactorily settled with the Dean of Women or Dean of Men before any student comes to the campus in September.

ADMISSION REQUIREMENTS

Candidates for admission to the College must meet the following requirements:

1. General scholarship as evidenced by graduation from an approved secondary school or equivalent preparation as determined by the Credentials Evaluation Division of the

Pennsylvania Department of Public Instruction. All candidates for admission must take the Scholastic Aptitude Test and English Composition Test of the College Entrance Examination Board;

2. Satisfactory character and personality traits as well as proper attitudes and interests as determined by the high school principal, guidance director, or other school official acquainted with the student;

3. Health and physical condition as evidenced by a medical examination by the student's family physician reported on the adopted form and approved by the College physician. No student shall be admitted who has disabilities which will impair his service as a teacher;

4. Recommendations of one or more College staff members following a personal interview with the applicant;

5. For admission to special curricula, the College may require the candidate to take an appropriate aptitude test in the special field in order to obtain further evidence of ability to succeed.

Admission Procedure

Admission to the regular fall or spring semester involves a number of steps, the first of which is the filing of application forms which may be secured from the Admissions Office.

The West Chester State College is owned and operated by the Commonwealth of Pennsylvania and therefore charges no tuition. In effect, **each student who enrolls receives a free tuition scholarship from the State.**

*COSTS BY CURRICULA PER ACADEMIC YEAR

A Summary of Costs For the Different Curricula	Elementary Education	Secondary Education	Health and Physical Education	Music Education	Liberal Arts
Basic Fee	$ 250	$ 250	$ 250	$ 250	$ 300
Special Curriculum Fee	—	—	36	90	—
Activity Fee	35	35	35	35	35
Books & Supplies (approx.)	120	120	120	120	120
Total—Day Students	405	405	441	495	455
Room & Board	612	612	612	612	612
Total—Boarding Students	$1017	$1017	$1053	$1107	$1067

NOTES:

1. **THE ABOVE COSTS ARE FOR ONE ACADEMIC YEAR.**
2. Payments are due on or before the date of registration.
3. For students other than legal students of Pennsylvania a tuition fee of $20.00 per semester hour is charged in lieu of basic fee.

*4. Fees are subject to change without notice.

CURRICULA OFFERED AT WEST CHESTER

Elementary Education—

A non-specialized course for teachers of the elementary grades. Specialization in the Kindergarten-Primary or Intermediate areas is possible through selection of appropriate elective courses.

Secondary Education—

Teaching in the junior and senior high schools. Students must choose a teaching field from the following: English, Latin, French, Spanish, German, mathematics, general science, chemistry, physics, biology, geography, and social studies.

Health and Physical Education—

Teaching health and physical education in the elementary and secondary schools.

Music Education—

Teaching music — both instrumental and vocal — in the elementary and secondary schools.

Liberal Arts—

The satisfactory completion of a four-year course of study in any of these three areas: Humanities, Social Sciences, and Natural Sciences, will lead to the degree of Bachelor of Arts.

Degree Curriculum for Dental Hygienists.

Degree Curriculum for Public School Nurses.

REGISTRATION INSTRUCTIONS

1964 Summer Sessions

UNDERGRADUATE STUDENTS — Ground Floor, Swope Hall

Station I — Student Lounge (students who have made application before day of registration)

A. Students who have completed their application for admission to the 1964 summer sessions should go directly to the Student Lounge on the ground floor of Swope Hall and pay the Student Activity fee. The fees are $1.75 for Pre and Post sessions and $3.50 for the Regular session. HAVE CHECKS MADE OUT IN ADVANCE PAYABLE TO THE **STUDENT ACTIVITY ASSOCIATION.**

B. Proceed to Choral Room, Swope Hall, to secure class schedule and Permit Cards.

Station II — Room S-3, Swope Hall (Students making application on day of registration)

A. Students who have not completed the application for admission to the 1964 summer sessions should report to Room S-3, ground floor, Swope Hall to be cleared by the Admissions Office. Students should secure a white summer school application and an IBM master card in this room.

B. Students should (a) proceed to the Student Lounge for payment of Student Activity fee (see directions in A-1) (b) report directly to the Choral Room to secure schedule and class permit cards.

Station III — Choral Room — Students MUST show Student Activity fee receipt

A. Students who have completed application for summer sessions are to stop at Station C to pick up summer school application and Class Permit Cards.

B. Course Card Tables (only students who were admitted to summer school on day of registration). Present application and master card at these tables and secure course card and permit card.

Station IV — Choral Room — Students Repeating Courses
Students repeating courses in which they received "D" or "F" grades must take their permit cards to a designated table.

Station V — Lobby — Seniors graduating in August, 1964.
Senior students planning to graduate in August, 1964, must sign for diplomas and secure applications for Provisional Teacher Certification. Please designate graduation date as Pre or Regular Session.

Station VI — Registrar's Table — Lobby **(ALL STUDENTS)**

1. Secure registration form and special pencil.
2. Secure Dean of Men's or Dean of Women's card.
3. Students receiving veterans' benefits must secure proper form.
4. Students who wish to have credits transferred to another college secure special form.

Station VII — Swope Auditorium

1. Complete the following: (see attached samples)
   a. Registration form — using special IBM pencil, PLEASE GIVE ALL INFORMATION REQUESTED.
   b. Permit-to-Attend-Class Card: please print name
   c. Dean of Men's Card or Dean of Women's card.
2. Dean of Men's or Women's Table
   a. All students must stop here to check resident or commuting status.
   b. Resident students will receive room assignments and indicate same on their registration forms.
   c. All resident students must take their meals in the College dining room.
   d. ALL RESIDENT STUDENTS MUST HAVE THE APPROVAL OF THE DEAN OF MEN OR DEAN OF WOMEN TO SECURE AUTOMOBILE STICKERS.
3. Check-out Tables on the Stage
   a. Registration form and Permit-to-Attend-Class card are to be checked at these tables.
   b. Registration form and special pencil will be collected.
   c. Blue Permit-to-Attend-Class Card and summer school application form will be returned to the student.
4. Automobile Regulations — Stage
   Students who have the pre-approval of the Dean of Men or the Dean of Women MUST secure their automobile stickers at this station.

Station VIII — **Business Office** — Instrumental Room, Swope Hall

A. Pay tuition and room and board fees.

B. Have permit cards stamped by the Business Office. THESE CARDS ARE TO BE SUBMITTED TO YOUR INDIVIDUAL PROFESSORS FOR CLASS ADMISSION.

C. THE APPROVED BLUE PERMIT CARD MUST BE PRESENTED TO THE INSTRUCTOR FOR ADMISSION TO CLASS.

SUMMER SCHOOL GRADES FOR ALL SESSIONS WILL BE MAILED TO THE STUDENTS AT THE END OF THE POST SESSION.

SUMMER WORKSHOPS

DEMONSTRATION SCHOOL

The Demonstration School will be open during the six weeks' session for the purpose of demonstrating teaching at the elementary level. Experience in student teaching will be available for a limited number of students who file applications early in the spring.

WORKSHOP IN ELEMENTARY EDUCATION

A Workshop in Elementary Education will be conducted to provide opportunity for study of newer practices in elementary education. Current problems will be shared by the members of the group. Discussions will be led by an experienced coordinator.

Master teachers and the facilities of the Demonstration School will be utilized for demonstration and observance. The Workshop will meet during the first and second periods (8:00-11:00 A.M.) during the Regular Session and will carry four semester hours of credit. Students may elect an additional three credit course. The Workshop is open to experienced teachers and college graduates.

WORKSHOP IN COMMUNITY AND SCHOOL HEALTH EDUCATION

The Community and School Health Education Workshop for rural teachers, school nurses, health education specialists, and others engaged in health work will be conducted during the three week period from June 29 to July 17. Three college credits may be earned by students who meet the College admission requirements. No additional courses may be carried by the student during this

three-week session. Information and application forms may be secured from your local County Superintendent of Schools, the Executive Secretary of the County Tuberculosis and Health Society of the county in which you reside, or from Miss N. Ruth Reed, Dept. of Health and Physical Education, West Chester State College, West Chester, Pennsylvania.

WORKSHOP IN SPECIAL EDUCATION

An opportunity to undertake an intensive program of observation and instruction of mentally retarded and physically handicapped children; six week tutorial experience guiding the development of a child who has special learning problems. Actual instruction experience will be combined with lecture, demonstration and case study. (Regular Session, 8:00 A.M.—12:00 Noon, 6 Credits.)

SUMMER MUSIC WORKSHOP FOR HIGH SCHOOL MUSICIANS

A summer music workshop for serious musicians of high school age will be held from July 6 to July 30 under the sponsorship of the Music Department. Offerings will include: band, orchestra, chorus, individual lessons, music theory, ensembles, and dance band. Concerts, recitals, and special clinics, open to the public, will be presented during the workshop. For brochure and application forms write to: Richard A. Boerlin, Workshop Director, Music Department, West Chester State College, West Chester, Pennsylvania.

MUSIC WORKSHOP FEES

Total fee for commuting students (including accident insurance, individual lessons, activity fee, and full workshop privileges) $65.00

Total fee for resident students (including above, plus room and board on campus for four weeks) _____ $149.00

STRING CONFERENCE AND CHAMBER MUSIC WORKSHOP

AUGUST 9-16, 1964

The Pennsylvania String Teachers Association, in cooperation with the Music Department of West Chester State College, will present a 7-day string conference and chamber music workshop from August 9 to August 16 in the new air-conditioned Swope Hall. A faculty of internationally known string authorities will present master classes for each of the stringed instruments. A daily two-hour string orchestra repertory session will be directed by a number of well-known conductors. Two orchestras, an adult string orchestra and a youth string orchestra, will rehearse daily, culminating in performances at the end of the week. Chamber music ensembles will

be organized and coached by members of the distinguished faculty. A complete program for young musicians, ages 12-18, will be presented, including participation in a string orchestra, sectional rehearsals, chamber music, attendance at master classes, and recreation. Information and application forms may be obtained by writing Dr. Constantine Johns, Department of Music, West Chester State College, West Chester, Pennsylvania.

A PROGRAM OF INDEPENDENT STUDY AND SUPERVISED FIELD EXPERIENCE IN CAMPING

The Department of Health, Physical Education, and Recreation offers a special program of courses in camp leadership for staff members at children's summer camps. These courses are designed to aid the student's professional growth and knowledge through directed leadership experience with children in the informal atmosphere of the camp.

COURSES AVAILABLE

Undergraduate Students

464. Supervised Recreation Leadership — 3 credits. (6 to 8 weeks' attendance at camp July through August.)

ELIGIBILITY:

Any matriculated student at West Chester State College is eligible to participate in the program. Permission of the special adviser should be obtained if credit is to be applied toward a degree. Students from other colleges may register with the permission of the course instructor. It is suggested that students enrolled at other colleges obtain the approval of their special adviser or appropriate administrative officer to assure that these courses may be applied toward degree requirements.

Apply to: Mr. Alvin B. Davis, Dept. of Health and Physical Education.

SEMINAR IN CONTEMPORARY EUROPEAN CULTURE

Cost: The cost to each student will be approximately $1,300, plus the tuition for the course.

Dates: The tour will leave from Kennedy Airport June 17 and will return to New York on August 5.

College Credit: The tour will be organized as a fully accredited course offered to students of the college.

Course Description: Social Science 300: Seminar in Contemporary European Culture 6 credit hours.

A fully guided tour of Europe with visits to important areas of the major countries. The tour will be organized as a seminar with a number of orientation discussions before departure. Opportunity will be provided for questions and discussion periods en route. A report in which the student will be encouraged to do research on some particular facet of the tour will be required.

All students participating in the tour will be required to pay the tuition fees, even though they may wish to audit the course and not take it for credit — in which case they need not write the paper.

Apply to: Dr. Clifford H. Harding, Dept. of Social Science.

WORKSHOP IN ATHLETIC ACTIVITIES FOR WOMEN — HEd 202

A workshop in athletic activities designed to develop a more comprehensive knowledge and experience in women's athletics. Current trends and techniques applicable to the role of women in the modern sports program will be emphasized. Information and application forms may be secured from Mrs. Elinor Z. Taylor, Health and Physical Education Department, West Chester State College, West Chester, Pennsylvania.

WORKSHOP IN WORLD CULTURES

The Social Science Department will conduct a Workshop in World Cultures from June 29 to July 24. The workshop will carry two (2) hours of graduate credit and is designed for teachers-in-service who have been assigned to teach the mandated World Cultures course in the secondary schools of Pennsylvania.

The workshop will provide an opportunity for in-service teachers to study the western and non-western cultures through the use of resource persons and faculty, through research in recent reference materials, and through consultation with representatives of the culture areas.

For further information write to: Dr. Byron Y. Fleck, Chairman, Social Science Department, West Chester State College, West Chester, Pennsylvania.

GEOGRAPHY FIELD COURSE INTO CANADA

(Post Session)

Geo 310 Geography Field Course into Canada _____ 3 sem. hrs.
The course includes camping and field studies into frontier areas of Ontario. Agriculture, mining centers, industries and urban areas will be investigated. Undergraduate.

Enrollment will be by pre-arrangement. Apply to Mr. Richard G. Bucksar, Department of Geography, before July 15.

Geo 583 Advanced Geography Field Course into Canada _____ 3 sem. hrs. (Post-Session)
The course includes camping and advanced field studies in frontier areas of Ontario. Agriculture, mining centers, industries and urban areas will be invsetigated. Graduate. Enrollment will be by pre-arrangement. Apply to Mr. Richard G. Bucksar, Department of Geography, before July 15.

Regular Session, 1964

National Science Foundation Summer Institute in Mathematics

Foundations of Algebra for Junior High School Teachers
Foundations of Geometry for Junior High School Teachers
Seminar in the Teaching of Junior High School Mathematics

Admission to this program is limited to those granted National Science Foundation stipends. For further information contact Dr. Albert E. Filano, Chairman, Mathematics Department.

The Deadline for submission of applications is February 15, 1964.

UNDERGRADUATE COURSES OFFERED

Pre-Session — June 8 to June 26

(Each class meets 8:00-9:30 a.m. and 10:30-12:00 noon)

ART

Courses		Cr.	Room
Art 101	Fine Arts	3	119
Art 306	Advanced Sculpture	3	19

EDUCATION

Edu 100	Social Foundations of Education	3	101
Edu 300	Audio-Visual Education (Section 01)	3	11
	Audio-Visual Education (Section 02)	3	17
Edu 301	Early Childhood Education	3	107
Edu 350	Educational Psychology (Section 01)	3	103
	Educational Psychology (Section 02)	3	102
Edu 401	Problems of Elementary Education	3	105
Edu 414	Professional Practicum (Secondary)	2	R118
Psy 250	General Psychology	3	SEB
Psy 352	Human Development (Adolescent)	3	SEB-C

ENGLISH

Eng 101	Grammar and Composition (Section 01)	3	115
	Grammar and Composition (Section 02)	3	116
Eng 221	General Literature I	3	R224
Eng 223	American Literature I	3	R222
Eng 225	English Literature I	3	R120
Eng 348	Short Story	3	117
Eng 350	Children's Literature	3	217

GEOGRAPHY

Geo 101	World Geography	3	201
Geo 102	Geography of the United States and Pa.	3	205

HEALTH and PHYSICAL EDUCATION

HEd 361	Tests and Measurements in Physical Ed.	3	S-8
HEd 481	Introduction to Safety Education	3	5

MATHEMATICS

Mat 101	Introduction to College Mathematics	3	111
Mat 241	Differential Calculus	3	113

MUSIC

Mus 220	Fine Arts	3	S-3
Mus 251	Music for the Primary Grades	3	S-7
Mus 310	History of Music II	3	S-1

SCIENCE

Courses			Cr.	Room
Sci	100	Basic Biological Science	3	206A
Sci	150	Basic Physical Science	3	212
Bio	242	Ornithology	3	202
Che	120	General Chemistry (lab to be arranged) Health Ed only	3	210

SOCIAL SCIENCE

His	101	History of Civilization I	3	207
His	102	History of Civilization II	3	211
His	211	History of the United States and Pa. I	3	213
His	212	History of the United States and Pa. II	3	215
His	313	History of Pennsylvania	3	7
SSc	331	Teaching Social Studies in Secondary Schools	3	209
PSc	231	American Government	3	R104
Soc	333	The Family	3	R116

Regular Session — June 29 to August 7

(Classes meet daily Monday through Friday unless otherwise indicated)

Student Teaching—(Application should be filed prior to May 1)

Edu	411	Elementary (6 credits)	June 29 to August 7
*Edu	412	Secondary (6 credits)	June 29 to August 7
HEd	471	Health and Physical Educ. (6 credits)	June 29 to August 7

*Enrollment in Professional Practicum, Edu 414, (Secondary) June 15 to June 26 is required of those who register for Secondary Student Teaching. Students report for registration and class as instructed by the Director of Student Teaching.

SSc 300 Seminar in Contemporary European Culture 6
(European Culture) Apply to Dr. Clifford H. Harding, Department of Social Sciences

FIRST PERIOD: 8:00-9:30 A.M.

Courses			Cr.	Room
		ART		
Art	202	Art for Elementary Grades	3	19
		EDUCATION		
Edu	300	Audio-Visual Education (Section 01)	3	11
		Audio-Visual Education (Section 02)	3	17
Edu	302	Problems of Secondary Education	3	107
Edu	350	Educational Psychology	3	105
Edu	441	Workshop in Elementary Education (8:00 - 11:00 a.m.)	4	Dem. Sch.
Edu	451	Tests and Measurements in Guidance	3	103
Psy	351	Human Development (Childhood)	3	101
SpE	340	Workshop in Special Education (8:00 - 12:00 noon)	6	SEB

ENGLISH

Courses		Cr.	Room
Eng 101	Grammar and Composition	3	113
Eng 102	Composition	3	119
Eng 211	Journalism	3	116
Eng 221	General Literature 1	3	212
Eng 353	Speech Problems	3	117

GEOGRAPHY

Geo 202	Geography of the United States and Canada	3	201
Geo 307	Geography of the U. S. S. R.	3	205

HEALTH and PHYSICAL EDUCATION

HEd 350	Health for the Elementary Grades	2	7
HEd 451	School and Community Health Education Workshop (June 29 to July 17 — all day. Apply to Miss N. Ruth Reed, West Chester State College)	3	1
HEd 464	Supervised Recreation Leadership (Six to eight weeks attendance at camp July through August. Apply to Mr. Alvin B. Davis, West Chester State College.)	3	
HEd 483	Psychology of Accident Prevention	3	Men's Dorm Lounge

LANGUAGE

Fre 101	Elementary French I	3	R120
Fre 102	Elementary French II	3	R120
Fre 103	Intermediate French 1	3	R118
Fre 104	Intermediate French II	3	R118
Ger 101	Elementary German 1	3	R104
Ger 102	Elementary German II	3	R104

MATHEMATICS

Mat 211	Advanced Algebra	3	R116

MUSIC

Mus 211	Sight Singing I	3	S-7
Mus 212	Sight Singing II (8:00 to 9:00 a.m.)	2	S-8

PUBLIC SCHOOL NURSING

PSN 305	Family Case Work	3	217

SCIENCE

Sci 100	Basic Biological Science	3	202
Sci 150	Basic Physical Science	3	210
Bio 111	Botany I (lab to be arranged)	4	206A
Bio 261	Anatomy and Physiology I (lab to be arranged)	3	R112
Phy 131	Physics I (June 29 to July 24)	4	214
Phy 132	Physics II (July 27 to August 21)	4	214

SOCIAL SCIENCE

Courses			Cr.	Room
His	102	History of Civilization II	3	207
His	316	History of American Frontier	3	211
PSc	231	American Government	3	209
Eco	231	Principles of Economics	3	R216

SECOND PERIOD: 9:30-11:00 A.M.

ART

Art	302	Creative Art (Painting)	3	19
Art	305	History of Western Art	3	119

EDUCATION

Edu	300	Audio-Visual Education	3	11
Edu	309	Language Arts (9:30 a.m. to 12:30 p.m.)	6	102
Edu	319	Teaching of Reading in Elementary Grades (by permission)	3	17
Edu	317	Oral and Written Expression in Elementary Grades (by permission)	3	103
Edu	330	Teaching the Exceptional Child	3	105
Edu	350	Educational Psychology	3	R222
Psy	370	Mental Hygiene	3	SEB-C
Phi	480	Introduction to Philosophy	3	107

ENGLISH

Eng	000	Remedial English	0	R216
Eng	101	Grammar and Composition	3	115
Eng	102	Composition	3	116
Eng	222	General Literature II	3	R224

GEOGRAPHY

Geo	204	Geography of Pennsylvania	3	205
Geo	210	Geographic Influences in American History	3	201

HEALTH and PHYSICAL EDUCATION

HEd	482	Driver Training	3	Men's Dorm Lounge

LANGUAGE

Fre	302	Advanced Oral French	3	R120
Spa	101	Elementary Spanish I	3	R118
Spa	102	Elementary Spanish II	3	R118
Ger	302	Advanced Oral German	3	R104

MATHEMATICS

Mat	101	Introduction to College Mathematics	3	R116
Mat	105	College Algebra and Trigonometry	3	R220
Mat	341	Intermediate Calculus	3	113

MUSIC

Courses		Cr.	Room
Mus 110	Theory of Music I	3	S-7
Mus 201	Theory of Music II	3	S-8
Mus 220	Fine Arts	3	S-1
Mus 325	Piano Class Methods	2	S-Inst.
Mus 401	Piano Class (Elementary Teachers)	3	S-Inst.

PUBLIC SCHOOL NURSING

PSN 302	Public Health Nursing I	3	217

SCIENCE

Sci 350	Teaching Science in Secondary Schools	3	R108
Che 321	Organic Chemistry I (lab to be arranged)	4	212
Bio 411	Plant Taxonomy	3	204

SOCIAL SCIENCE

His 211	History of United States and Pa. I	3	211
His 220	Renaissance and Reformation	3	215
Soc 231	Principles of Sociology	3	213
PSc 231	American Government	3	R208

10:30 - 12:00 noon

Mus 171-178	Symphony Orchestra	1/2	S-stage

THIRD PERIOD: 11:00-12:30 P.M.

ART

Art 101	Fine Arts	3	119

EDUCATION

Edu 300	Audio-Visual Education	3	11
Edu 306	Introduction to Counseling and Guidance	3	103
Edu 350	Educational Psychology	3	R218
Edu 320	Teaching Reading Academic Subjects (Secondary School)	2	17
Psy 250	General Psychology	3	R222
Psy 352	Human Development (Adolescent)	3	107

ENGLISH

Eng 103	Speech	2	R220
Eng 222	General Literature II	3	R226
Eng 224	American Literature II	3	117
Eng 226	English Literature II	3	116
Eng 349	Bible as Literature	3	PLB

GEOGRAPHY

Geo 101	World Geography	3	201
Geo 203	Economic Geography	3	207

LANGUAGE

Courses		Cr.	Room
Spa 103	Intermediate Spanish I	3	R120
Spa 104	Intermediate Spanish II	3	R120
Spa 302	Advanced Oral Spanish	3	R216
Ger 103	Intermediate German I	3	R104
Ger 104	Intermediate German II	3	R104

MATHEMATICS

Mat 131	Analytic Geometry	3	R116
Mat 242	Integral Calculus	3	R118

MUSIC

Mus 301	Theory of Music IV	2	S-7
Mus 327	Teaching Music Appreciation in Elementary Grades	3	S-6

PUBLIC SCHOOL NURSING

PSN 303	Public Health Nursing II	3	217

SCIENCE

Bio 141	Zoology I (lab to be arranged)	4	206A
Bio 210	Field Botany	3	204
Sci 100	Basic Biological Science	3	212
Sci 150	Basic Physical Science	3	210
Sci 250	Science for Elementary Grades	3	202

SOCIAL SCIENCE

His 101	History of Civilization I	3	215
His 212	History of the United States and Pa. II	3	211
His 321	History of England	3	209
PSc 334	American Political Parties	3	213

FOURTH PERIOD: 1:30-3:00 P.M.

EDUCATION

Edu 100	Social Foundations of Education	3	101

ENGLISH

Eng 316	Teaching English in Secondary Schools	3	116

MATHEMATICS

Mat 351	Arithmetic for Elementary Grades	3	113

HEALTH and PHYSICAL EDUCATION

HEd 131	Aquatic Fundamentals	1	Pool
HEd 132	Aquatics and Water Safety	1	Pool
HEd 331	Aquatic Leadership	2	Pool

MUSIC

Courses		Cr.	Room
Mus 181-188	Concert Band	1/2	S-stage
Mus 161-168	Choir	1/2	S-choral
Mus 332	Instrumental Conducting (2:00-3:00 p.m.) Woodwind Instruments (Indiv. lessons) by appointment Piano (Individual lessons) by appointment Voice (Individual lessons) by appointment	2	

Post Session — August 10 to August 28

EDUCATION

Edu 307	Diagnostic and Remedial Reading	3	17
Edu 350	Educational Psychology	3	107
Edu 451	Tests and Measurements in Guidance	3	105
Edu 300	Audio-Visual Education	3	11
Psy 352	Human Development (Adolescent)	3	103
SpE 341	Psychology of Exceptional Children	3	SEB

ENGLISH

Eng 000	Remedial English (Section 01)	0	101
	Remedial English (Section 02)	0	102
Eng 101	Grammar and Composition	3	116
Eng 221	General Literature I	3	R216
Eng 222	General Literature II	3	115
Eng 328	American Prose	3	117
Eng 350	Children's Literature	3	217

GEOGRAPHY

Geo 201	Conservation of Natural Resources	3	203
Geo 310	Field Trip into Canada	3	

HEALTH and PHYSICAL EDUCATION

HEd 484	Methods and Materials of Safety Education	3	5

MATHEMATICS

Mat 101	Introduction to College Mathematics	3	R116

MUSIC

Mus 233	Acoustics	3	S-7

SCIENCE

Sci 100	Basic Biological Science	3	R218
Sci 150	Basic Physical Science	3	210
Sci 250	Science for Elementary Grades (in-service teachers only)	3	202

Courses			Cr.	Room
Bio	262	Anatomy and Physiology II (lab to be arranged)	3	R112
Phy	132	Physics II (July 27 to August 21)	4	214
Phy	330	General Astronomy	3	212

SOCIAL SCIENCE

His	101	History of Civilization I	3	R220
His	102	History of Civilization II	3	209
His	211	History of the United States and Pa. I	3	211
His	212	History of the United States and Pa. II	3	213
SSc	332	Teaching Social Studies and Geography (Elementary)	3	215
PSc	231	American Government	3	7

GRADUATE PROGRAM

West Chester State College offers a graduate program leading to the degree of Master of Education. Degrees can be obtained in one of eight fields: Elementary, Music, Health and Physical Education, English, Mathematics, Science, Social Science, and Geography.

The program is designed exclusively for persons engaged in classroom teaching. Each of the eight fields in which the student can specialize places its emphasis, therefore, on developing the student's background for his actual teaching.

The basic requirements for the degree are: 30 semester credits, 18 of which must be in the student's area of specialization; the writing of a research report or thesis; and an acceptable overall average. The time limit for earning the degree is six years. Students may transfer a maximum of six semester credits from other accredited graduate schools.

The graduate program at West Chester is fully accredited by the Middle States Association of Colleges and Secondary Schools; the National Council of Accreditation of Teacher Education; the National Association of Schools of Music; and the American Association for Health, Physical Education and Recreation.

The charge for Tuition in the Graduate Program is $20 per semester hour of credit. Graduate students desiring housing facilities during the summer sessions may procure such facilities at the regular rates listed on pages 9 and 10. All fees are due and payable on the day of registration, after which the late fee is applicable. Graduate students are also required to pay any fees (activity fee, library fines, etc.) required of other summer school students, as well as the late registration fee if the latter fee is applicable. All fees are subject to change without notice.

For a bulletin of information or for application for admission to the summer or other sessions, write:

Dr. Willard T. Trezise, Director of the Graduate Program
West Chester State College
West Chester, Pennsylvania

IT SHOULD BE NOTED THAT ALL COURSES OFFERED IN THE GRADUATE PROGRAM, WHEN TAKEN AS PART OF AN APPROVED PROGRAM, MAY BE APPLIED TOWARD PERMANENT CERTIFICATION.

GRADUATE PROGRAM OFFERINGS

Master's Degree **Certification** **Personal Growth**

PRE-SESSION

June 8 - 26

Registration: Monday, June 8, 1964
3:00 - 5:00 P.M.
Swope Auditorium
Classes begin Monday, June 8, at 7:00 P.M.
Classes meet Monday - Thursday 7:00 - 9:30 (2 credit classes)
6:00 - 9:30 (3 credit classes)

REQUIRED COURSES — ALL CURRICULA

Courses		Cr.	Room
Hum 500	Seminar in the Humanities Dr. Mitchell and Dr. Slagle	2	S-3

BIOLOGY

Bio 524	Experimental Biology I Dr. Dorchester	3	R-11
Bio 591	History of Biology Mr. McDonnell	3	206-A
Bio 573	Experimental Cellular Physiology I Dr. O'Malley	3	204
Bio 610	Thesis Staff	3	

EDUCATION

Edu 517	Curriculum Problems in Elementary Ed. Mr. Studenmund	2	101
Edu 529	The Production of Non-Projected Still Materials Dr. Weagley	2	21
Gui 564	Homeroom Guidance Dr. Hill	2	117

ENGLISH

Eng 550	Literature for Elementary Schools Mrs. Faucett	2	116

FOREIGN LANGUAGE

Lan 501	Linguistics Dr. Frieman	3	R-122

GEOGRAPHY

Geo 543	Geography of South America Dr. Langdon	2	205

HEALTH and PHYSICAL EDUCATION

HEd 501	Advanced Rhythmical Foreign Gymnastics Mr. Davis	2	F.H.-Gym
HEd 504	Dance in Education Miss Powlus	2	E. Gym
HEd 521	Administration and Supervision of Interschool and Intramural Athletics Dr. Cottrell	2	(CCR)
HEd 550	Foundations and Principles of Health, Physical Education and Recreation Dr. Sturzebecker	2	F.H.
HEd 570	Curriculum Development in Health and Physical Education Dr. Youmans	2	S-7

MATHEMATICS

Courses		Cr.	Room
Mat 521	Educational Statistics Dr. Filano	2	111

PHYSICAL SCIENCE

PSc 590	History of the Physical Sciences Dr. Rickert	2	214

SOCIAL SCIENCE

SSc 532	International Relations Dr. Harding	2	207

MUSIC

Mus 513	Music in the Elementary Schools Mrs. Bernard	2	S-5

REGULAR SESSION

June 29 - August 7

Registration: Monday, June 29, 1964
8:30-11:30 A.M. and 1:30-3:30 P.M.
Swope Hall
Classes begin Tuesday, June 30, at 8:00 A.M.
Classes meet Monday - Friday at stipulated time.
No Classes Monday, July 6, 1964.
Summer Commencement Thursday, August 6, at 10:00 A.M.

REQUIRED COURSES — ALL CURRICULA

Edu 500	Methods and Materials of Research (Secondary Students Only) 8:00-9:00 A.M. Dr. Berry	2	R-218
Edu 500	Methods and Materials of Research (Elementary Students Only) 1:00-2:00 P.M. Dr. Hill	2	17
HEd 590	Methods and Materials of Research (Health Education Students Only) Dr. Youmans 8:00-9:00 A.M.	2	115
Edu 510	Educational Foundations Dr. Bannon 8:00-9:00 A.M.	2	R-220
Edu 510	Educational Foundations Dr. Bannon 10:00-11:00 A.M.	2	17
Hum 500	Seminar in the Humanities Dr. Mitchell and Dr. Slagle 8:00-9:00 A.M.	2	S-3

BIOLOGY

Courses		Cr.	Room
Bio 511	Systemic Botany Mr. Overlease 8:00-9:30 A.M.	3	R-105
Bio 514	Plant Pests and Diseases Dr. Espenshade 9:30-11:00 A.M.	3	206
Bio 524	Experimental Biology Dr. Dorchester 8:00-9:30 A.M.	3	R-11
Bio 573	Experimental Physiology II Dr. O'Malley 8:00-9:30 A.M.	3	204
Bio 561	Human Heredity Dr. Trezise 10:00-11:30 A.M.	3	R-112
Bio 575	Advanced Human Physiology II Dr. O'Malley 11:30 A.M.-1:00 P.M.	3	R-112
Bio 595	Resource Materials for Elementary Grades Miss Greenwood 9:30-11:00 A.M.	3	202
Bio 610	Thesis Staff By Appointment	3	

EDUCATION

Edu 501	Foundations of Reading Dr. Gallen 11:00 A.M.-12:00 P.M.	2	105
Edu 505	Curriculum Research in Language Arts Mrs. Culp 10:00-11:00 A.M.	2	R-226
Edu 523	Elementary School Organization and Supervision Dr. Micken 1:00-2:00 P.M.	2	107
Edu 530	Selection and Effective Utilization of Audio-Visual Materials Dr. Weagley 11:00 A.M.-12:00 P.M.	2	21
Edu 535	Administering Audio-Visual Services Dr. Weagley 10:00-11:00 A.M.	2	21
Edu 561	Guidance in the Elementary School Miss King 10:00-11:00 A.M.	2	210
Gui 567	Group Guidance Mr. Recktenwald 11:00 A.M.-12:00 P.M.	2	101
Gui 572	Introduction to Rehabilitation Counseling Mr. Greenberg 1:00-2:00 P.M.	2	117
Psy 552	Personality Development Dr. Gregg 10:00-11:00 A.M.	2	101
Psy 553	Group Dynamics Dr. Gregg 8:00-9:00 A.M.	2	102

ENGLISH

Courses		Cr.	Room
Eng 502	History of the English Language Mr. Clokey 11:00 A.M.-12:00 P.M.	2	115
Eng 522	Chaucer Dr. Thomas 9:00-10:00 A.M.	2	21
Eng 525	Biography Dr. Binney 10:00-11:00 A.M.	2	117
Eng 534	Nineteenth Century American Prose: Twain, James Dr. Bailey 8:00-9:00 A.M.	2	R-222

FOREIGN LANGUAGE

Fre 532	20th Century French Novel Dr. Roberts 9:30-11:00 A.M.	3	R-122
Spa 540	The Picaresque Novel Mr. Lombardi 1:00-2:30 P.M.	3	R-104
Ger 532	German Drama of the 19th and 20th Century Mr. Kulhanek 11:00 A.M.-12:30 P.M.	3	R-122

GEOGRAPHY

Geo 541	Geography of Canada Mr. Bucksar 11:00 A.M.-12:00 P.M.	2	205
Geo 546	Geography of Asia (Excluding U. S. S. R.) Mr. Hawthorne 9:00-10:00 A.M.	2	203

HEALTH and PHYSICAL EDUCATION

HEd 603	Advanced Aquatics Dr. Twardowski 11:00 A.M.-12:00 P.M.	2	Field House Pool
HEd 502	Elementary Physical Education Workshop Mr. Wilkinson 10:00-11:00 A.M.	2	Field House Gym
HEd 520	Advanced Coaching Mr. Lorback 10:00-11:00 A.M.	2	R-105
HEd 530	Psychological and Physiological Basis of Motor Activity Mr. Norris 11:00 A.M.-12:00 P.M.	2	R-105
HEd 531	Adaptive Physical Education Workshop Mr. Norris 8:00-9:00 A.M.	2	R-226
HEd 541	School Community Health Education Workshop Dr. Cottrell 8:30 A.M.-3:30 P.M.	2	1-5-7

Courses		Cr.	Room
HEd 561	Measurement and Evaluation in Health, Physical Education and Recreation Mr. Lorback	2	CCR
HEd 591	Seminar (Non-Thesis) Dr. Youmans 9:00-10:00 A.M.	2	Grad. Center 232 Sharpless Street

MATHEMATICS

Mat 503	History of Mathematics Staff 9:30-11:00 A.M.	3	R-218
Mat 547	Introduction to the Theory of Functions of a Complex Variable Staff 11:00 A.M.-12:30 P.M.	3	113

PHYSICAL SCIENCE

PSc 512	Mechanics for Teachers Dr. Rickert 9:00-10:30 A.M.	3	214

SOCIAL SCIENCE

SSc 500	Seminar in Contemporary European Culture (European Tour) Dr. Harding	4	
His 526	Workshop in World Cultures (June 29-July 24) Mr. Shaffer 10:00 A.M.-12:00 P.M.	2	Philips Ballroom
His 524	Cultures of the Non-Western World Dr. Everett 8:00-9:00 A.M.	2	213
His 512	United States as a World Power Dr. Everett 9:00-10:00 A.M.	2	207
Soc 531	Social Pathology Dr. Maneval 8:00-9:00 A.M.	2	215
Eco 533	Teaching Economics in Secondary Schools Dr. Schooler 10:00-11:00 A.M.	2	207

MUSIC

Mus 500	Methods and Materials of Research Dr. Fletcher 8:00-9:00 A.M.	2	S-5
Mus 504	Advanced Instrumental Conducting Mr. Carson 1:00-2:00 P.M.	2	S-11
Mus 505	Contemporary Music Dr. Johns 8:00-9:00 A.M.	2	S-1

Courses		Cr.	Room
Mus 508	Choral Literature Dr. Jones 11:00 A.M.-12:00 P.M.	2	S-C
Mus 509	Piano Literature Mrs. Gottlieb 11:00 A.M.-12:00 P.M.	2	S-3
Mus 511	Administration of Public School Music Dr. Antonowich 10:00-11:00 A.M.	2	S-6
Mus 515	Marching Band Techniques and Materials Mr. Carson 10:00-11:00 A.M.	2	S-11
Mus 519	Music Appreciation in the General Music Program Dr. Antonowich 11:00 A.M.-12:00 P.M.	2	S-1
Mus 531-535	Voice, Advanced Voice Staff By Appointment	1	
Mus 536-537	Vocal Ensemble and/or Chorus Dr. Jones 1:30-2:30 P.M.	1	S-C
Mus 538	Opera Workshop Dr. Jones 3:00-5:00 P.M.	2	S-C
Mus 541-551	Advanced Piano Piano Staff By Appointment	1	
Mus 560	Study and Appreciation of the Opera Miss Williams 9:00-10:00 A.M. (Open to all Graduate Students)	2	S-5
Mus 561-565	Advanced Instruments Instrumental Staff By Appointment	1	
Mus 566-569	Ensemble and/or Band Mr. Carson 1:30-2:30 P.M.	1	S-Inst.
Mus 566-569	Ensemble and/or Orchestra Dr. Johns 11:00 A.M.-12:00 P.M.	1	S-S
Mus 571	Music Criticism and Aesthetics Dr. Jones (Open to all Graduate Students) 10:00-11:00 A.M.	2	S-3
Mus 572	Vitalizing the Elementary Music Program (Elementary Education Curriculum) Mr. Gutscher 9:00-10:00 A.M.	2	S-6
Mus 581	Accompanying Mr. Whitten 9:00-10:00 A.M.	2	S-S
Mus 582	Form in Music Dr. Wright 9:00-10:00 A.M.	2	S-10
Mus 586	Vocal Diction Miss Sheppard 8:00-9:00 A.M.	2	S-6

Courses		Cr.	Room
Mus 588	Research Seminar in Music Mr. Sprenkle 8:00-9:00 A.M.	2	S-5
Mus 590	Study and Appreciation of the Symphony Dr. Johns (Open to all Graduate Students) 9:00-10:00 A.M.	2	S-3

POST SESSION

August 10 - August 28

Registration: Monday, August 10, 1964
8:30-11:30 A.M. and 1:30-3:30 P.M.
Swope Hall
Classes Begin Tuesday, August 11, 1964
Make-up Class, Saturday, August 15, 1964
Classes meet Monday - Friday 8:00 - 9:30
10:30 - 12:00

REQUIRED COURSES — ALL CURRICULA

Hum 500	Seminar in the Humanities Dr. Mitchell and Dr. Slagle	2	S-3

BIOLOGY

Bio 521	Wildlife and Man. Ecology and Conservation Mr. Harry Jones	3	204
Bio 543	Freshwater Biology Mr. McDonnell	3	206
Bio 610	Thesis By Appointment Staff	3	

EDUCATION

Gui 500	Principles and Techniques in Guidance Dr. Hill	2	R-118
Edu 532	Photography Mr. Strayer	2	19
Edu 536	Supervision in the Improvement of Instruction Mr. Cartright	2	R-104
Edu 541	Contemporary Teaching Trends Dr. Benda	2	21

ENGLISH

Eng 514	American Literary Movements Dr. Berry	2	R218

FOREIGN LANGUAGE

Lan 502	Foreign Language in the Elem. School Mr. DuGard	3	R-120
Ger 540	The German Short Story Mr. Kulhanek	3	R-122

GEOGRAPHY

Courses		Cr.	Room
Geo 520	Conservation Workshop Staff	2	201
Geo 524	Modern Concepts of Global Geography Mr. Hawthorne	2	205
Geo 583	Advanced Geography Field Course into Can.	3	

HEALTH and PHYSICAL EDUCATION

HEd 510	School and Community Recreation Mr. Davis or Dr. Twardowski	2	CCR Field House
HEd 560	Contemporary Problems in Health and Physical Education Dr. Sturzebecker	2	Field House
HEd 580	Contemporary Practices in Safety Education Dr. Cottrell	2	R-216

MATHEMATICS

Mat 501	Fundamental Concepts of Mathematics for the Elementary Teacher Staff	2	111

PHYSICAL SCIENCE

PSc 532	Space Science Dr. Rickert	3	212

SOCIAL SCIENCE

His 513	Seminar in American Constitutional History Dr. Fleck	2	207

MUSIC

Mus 510	Current Trends in Music Education Dr. Antonowich	2	S-6
Mus 585	String Literature and Pedagogy Dr. Johns	2	S-10

COLLEGE AV

West Chester State College Bulletin
WEST CHESTER, PENNSYLVANIA

Entered as second-class matter
March 3, 1931, at the Post Office
at West Chester, Pa.

Summer Sessions 1964

Undergraduate - Graduate
Courses for Permanent Certification